



ANYDATA.NET INC. TEST REPORT
FOR THE
CDMA DATA MODEM W/ DTSS-800
FCC PART 15 SUBPART B SECTIONS 15.107 AND 15.109 CLASS B
AND
FCC PART 22
COMPLIANCE

DATE OF ISSUE: FEBRUARY 28, 2002

PREPARED FOR:

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Kwachon City, Kyunggi-do, Korea, 427-040

P.O. No.: ANY-0008
W.O. No.: 78420

PREPARED BY:

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Mariposa, CA 95338

Date of test: February 19 –
March 22, 2002

Report No.: FC02-023

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TABLE OF CONTENTS

Administrative Information	3
Summary of Results.....	4
Conditions for Compliance.....	4
Approvals.....	4
Equipment Under Test (EUT) Description.....	5
Equipment Under Test.....	5
Peripheral Devices.....	5
Temperature and Humidity During Testing	5
Measurement Uncertainty.....	5
2.1033(c)(3) User's Manual	6
2.1033(c)(4) Type of Emissions	6
2.1033(c)(5) Frequency Range	6
2.1033(c)(6) Operating Power.....	6
2.1033(c)(7) Maximum Power Rating.....	6
2.1033(c)(8) DC Voltages	6
2.1033(c)(9) Tune-Up Procedure	6
2.1033(c)(10) Schematics and Circuitry Description	6
2.1033(c)(11) Label and Placement.....	6
2.1033(c)(12) Submittal Photos.....	6
2.1033(c)(13) Modulation Information	6
2.1033(c)(14)/2.1046/22.913 - RF Power Output	7
2.1033(c)(14)/2.1047(b)/22.915(a) - Modulation Characteristics - Audio Frequency Response	10
2.1033(c)(14)/2.1047(b)/22.915(a) - Modulation Characteristics - Modulation Limiting Response	10
2.1033(c)(14)/2.1049(i)/22.917(c) – Emissions Mask & Occupied Bandwidth	11
2.1033(c)(14)/2.1051/22.917(e) – Out of Band Emissions at Antenna Terminal	32
2.1033(c)(14)/2.1053/22.917(e) - Out Of Band Emissions - OATS	45
2.1033(c)(14)/2.1055/22.355- Frequency Stability	45
2.1091 – MPE Calculations	48
15.107 – AC Conducted Emissions – Receiver/Digital	49
15.109 – Radiated Emissions – Receiver/Digital	65

CKC Laboratories, Inc. has received Certificates of Accreditation from the following agencies:

A2LA (USA); BSMI (Taiwan); Nemko (Norway); and GOST (Russia).

CKC Laboratories, Inc has received test site Registration Acceptance from the following agencies:

FCC (USA); VCCI (Japan); and Industry Canada.

CKC Laboratories, Inc. has received Letters of Acceptance through an MRA for the following agencies:

ACA/NATA (Australia); SABS (South Africa); SWEDAC (Sweden); Radio Communications Agency (RA); HOKLAS (Hong Kong); Bakom (Swiss); BIPT (Belgium); Denmark Telestyrelsen; RvA (Netherlands); SEE (Luxembourg) SITTEL (Bolivia); and UKAS (UK).

ADMINISTRATIVE INFORMATION

DATE OF TEST:	February 19 – March 22, 2002
DATE OF RECEIPT:	February 19, 2002
PURPOSE OF TEST:	To demonstrate the compliance of the CDMA Data Modem w/ DTSS-800 with the requirements for Part 15 Subpart B Sections 15.107 and 15.109 Class B and FCC Part 22 devices.
TEST METHOD:	ANSI C63.4 (1992), FCC Part 22, TIA/EIA 603, TIA/EIA 95A
FREQUENCY RANGE TESTED:	9 kHz - 9 GHz
MANUFACTURER:	AnyDATA.NET Inc. Hanvit Bank Bldg. 7th Fl., 1-12 Byulyang-dong Kwachon City, Kyunggi-do, Korea, 427-040
REPRESENTATIVE:	John Kim
TEST LOCATION:	CKC Laboratories, Inc. 110 Olinda Place, Brea, CA 92621 5473A Clouds Rest, Mariposa, CA 95338

SUMMARY OF RESULTS

As received, the AnyDATA.NET Inc. CDMA Data Modem w/ DTSS-800 was found to be fully compliant with the following standards and specifications:

United States

- FCC Part 15 Subpart B Sections 15.107 and 15.109 Class B using:
 - ANSI C63.4 (1992) method
- FCC Part 22 also using TIA/EIA 603, TIA/EIA 95A

CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply.

APPROVALS

QUALITY ASSURANCE:

A handwritten signature in cursive script, reading "Dennis Ward".

Dennis Ward, Quality Manager

A handwritten signature in cursive script, reading "Septimiu Apahidean".

Septimiu Apahidean, EMC/Lab Manager

A handwritten signature in cursive script, reading "Chuck Kendall".

Chuck Kendall, EMC/Lab Manager

TEST PERSONNEL:

A handwritten signature in cursive script, reading "Randy Clark".

Randy Clark, EMC Engineer

A handwritten signature in cursive script, reading "Eddie Wong".

Eddie Wong, EMC Engineer

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The EUT tested by CKC Laboratories was representative of a production unit. External CDMA Data Modem Transceiver.

EQUIPMENT UNDER TEST

CDMA Data Modem w/ DTSS-800

Manuf: AnyDATA.NET Inc.
Model: EMII-800
Serial: 0201K10210
FCC ID: P4M (pending)

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Laptop

Manuf: Samsung
Model: Academy 680
Serial: 558791ANB00124
FCC ID: DoC

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

MEASUREMENT UNCERTAINTY

Associated with data in this report is a $\pm 2.94\text{dB}$ measurement uncertainty for radiated emissions and $\pm 1.56\text{dB}$ measurement uncertainty for conducted emissions.

2.1033(c)(3) USER'S MANUAL

The necessary information is contained in a separate document.

2.1033 (c)(4) TYPE OF EMISSIONS

The necessary information is contained in a separate document.

2.1033(c)(5) FREQUENCY RANGE

Transmits on 824 – 849 MHz.

Receives on 869 – 894 MHz.

2.1033(c)(6) OPERATING POWER

The maximum ERP power allowed is .4467 Watts.

2.1033(c)(7) MAXIMUM POWER RATING

The ERP of mobile transmitter and auxiliary test transmitter must not exceed 7 Watts.

2.1033(c)(8) DC VOLTAGES

The dc voltages are 6-12V DC.

2.1033(c)(9) TUNE-UP PROCEDURE

The necessary information is contained in a separate document.

2.1033(c)(10) SCHEMATICS AND CIRCUITRY DESCRIPTION

The necessary information is contained in a separate document.

2.1033(c)(11) LABEL AND PLACEMENT

The necessary information is contained in a separate document.

2.1033(c)(12) SUBMITTAL PHOTOS

The necessary information is contained in a separate document.

2.1033(c)(13) MODULATION INFORMATION

The necessary information is contained in a separate document.

2.1033(c)(14)/2.1046(a)/22.913 - RF POWER OUTPUT

Effective Radiated Power Limit (Effective Radiated Power)

Antenna Substitution method (TIA/EIA 603 Par 2.2.17) was used. The peak RF field strength of the EUT was first measured with a tune dipole antenna. The EUT is then replaced with a transmitting tuned Dipole antenna. A signal generator fed RF signal to the transmitting antenna via a RF power amplifier. The signal level of the signal generator was adjusted to produce RF field strength equal to the transmitted field strength of the EUT.

The signal level is recorded as ERP after applicable RF power amplifier gain (+54.4 dB) and Cable Loss (-2.4 dB).

RWB=VBW= 3MHz

Spec limit : *The ERP of mobile transmitter and auxiliary test transmitter must not exceed 7 Watts.*

Freq in MHz	Sig Gen Level dBuV (with correction)	ERP (Watts)
824.038	136.5	0.4467
836.516	136.2	0.4169
848.974	135.6	0.3631

Data Conversion:

dBuV to V

$$V = 1 \times 10^{-6} \times \text{Anti Log } 10 (\text{dBuV} / 20)$$

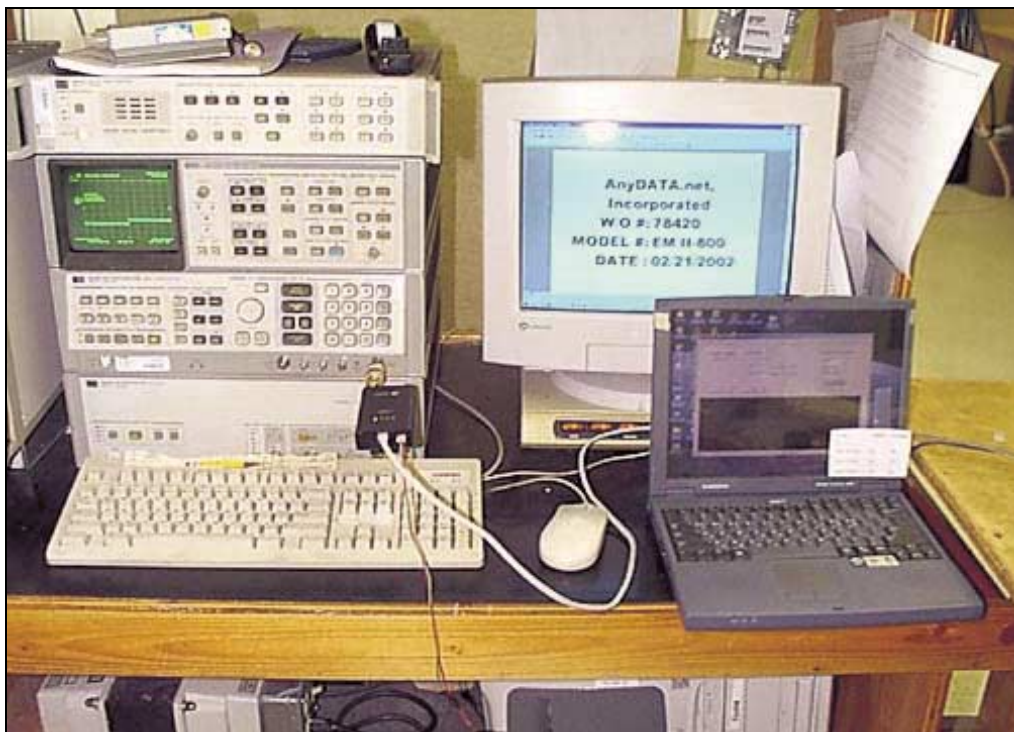
$$\begin{aligned} \text{Power} &= V^2 / R \\ &= V^2 / 50 \end{aligned}$$

Carrier Output Power to Antenna

RF power to antenna was measured at the antenna terminal using a power meter.

Freq in MHz	Power
	Watts
824.07	0.44
836.54	0.33
848.97	0.38

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Signal Generator	00089	HP	8656A	2245A04166	090201	090602
Power Meter	02082	HP	435B	2445A11881	082101	032102
Amplifier	00627	AR	50W1000A	14335	010402	010403



Direct Connect Test Setup



Direct Connect Test Setup

**2.1033(c)(14)/2.1047(a)/22.915(a) - MODULATION CHARACTERISTICS - AUDIO
FREQUENCY RESPONSE**

The necessary information is contained in a separate document.

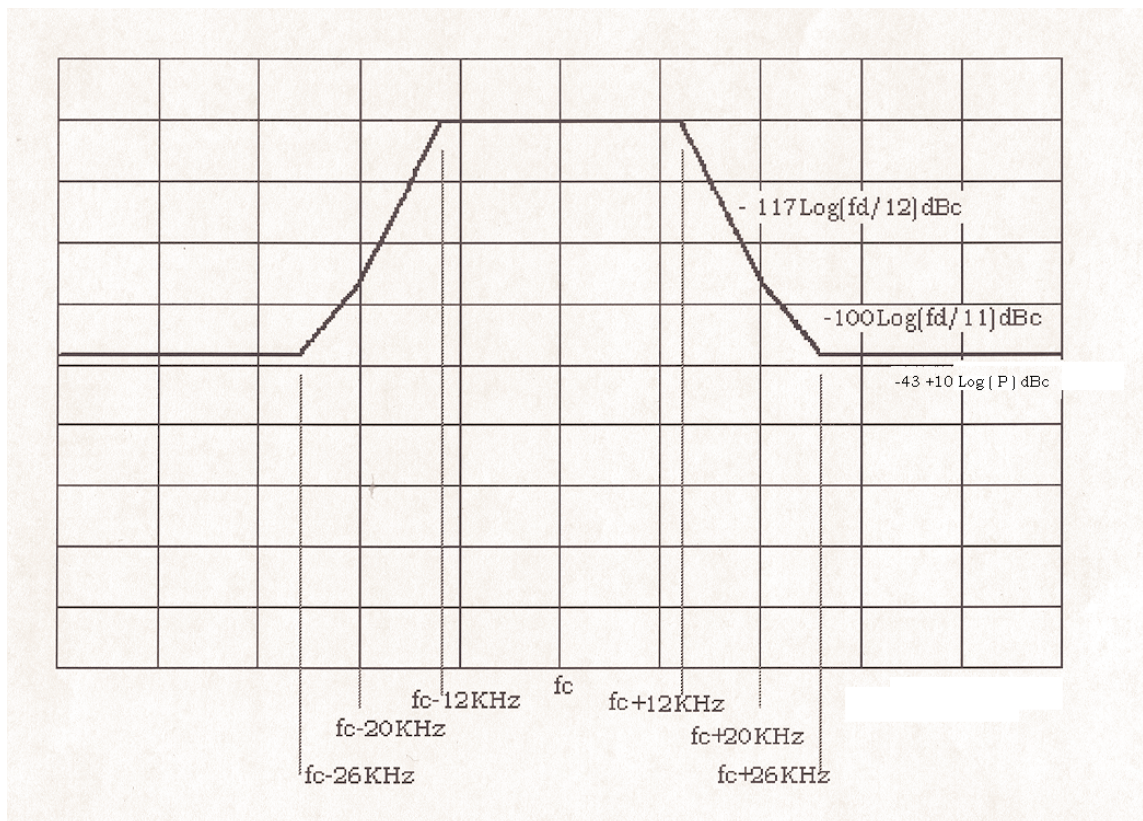
**2.1033(c)(14)/2.1047(b)/22.915(a) MODULATION CHARACTERISTICS – Modulation
Limiting Response**

The necessary information is contained in a separate document.

2.1033(c)(14)/2.1049(i)/22.917(c)- EMISSIONS MASK & OCCUPIED BANDWIDTH

Alternative F3E/F3D emission mask Calculation

- 1 The mean power of any emission removed from the carrier frequency by a displacement frequency (F_d in kHz) must be attenuated below the mean power of un-modulated carrier (P) as follows
 - (i) On any frequency removed from the carrier frequency by more than 12 kHz but not more than 20 kHz: at least $117 \log (F_d / 12)$ dB;
 - (ii) On any frequency removed from the carrier frequency by more than 20 kHz, up to the first multiple of the carrier frequency: at least $100 \log(f_d/11)$ dB or 60 dB or $43+10 \log P$ which ever is the lesser attenuation.
- 2 For mobile stations, modulating signal other than the supervisory audio tone in the frequency range of 5.9 to 6.1 kHz must be attenuated, relative to the level at 1 kHz , at least 35 dB.



Calculation:

(i) For $12 \text{ KHz} < F_d < 20 \text{ KHz}$,
Attenuation = $117 \text{ Log } (F_d/12) \text{ dB}$.

(ii) For $20 \text{ KHz} < F_d < F_c \times 2$,

Attenuation = $100 \text{ Log } (F_d/11) \text{ dB}$

or

Attenuation = 60 dB

or

Attenuation = $43 + 10 \text{ Log } P$

Whichever is the lesser attenuation.

Applying customer supplied rated EUT power of 0.316 Watts,

$$\begin{aligned} \text{Attenuation} &= 43 + 10 \text{ Log } P \\ &= 43 + 10 \text{ Log } 0.326 \\ &= 38 \text{ dB} \end{aligned}$$

Therefore : attenuation of 60 dB is not used.

To determine F_d , where the attenuation of $43+10\text{Log } P$ occurs,

$$43 + 10 \text{ Log } P = 100 \text{ Log } (F_d/11)$$

$$F_d = 11 \times \text{AntiLog } (10) \frac{43 + 10 \text{ Log } P}{100}$$

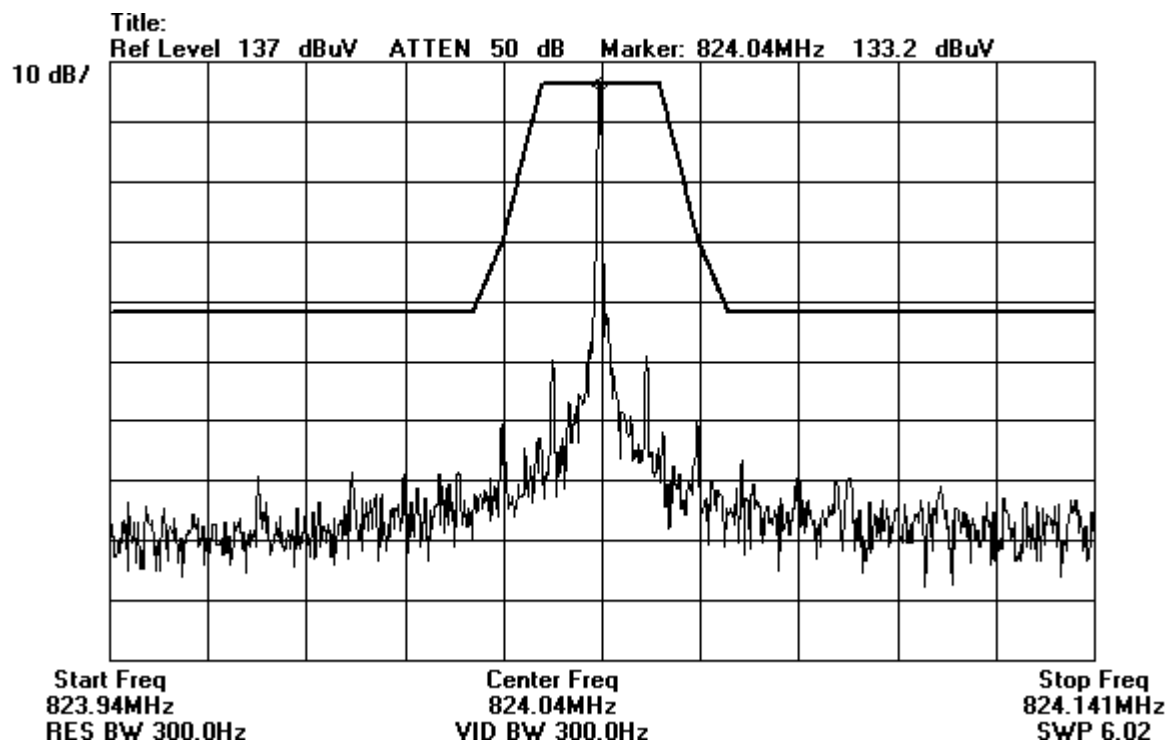
$$F_d = 26 \text{ KHz.}$$

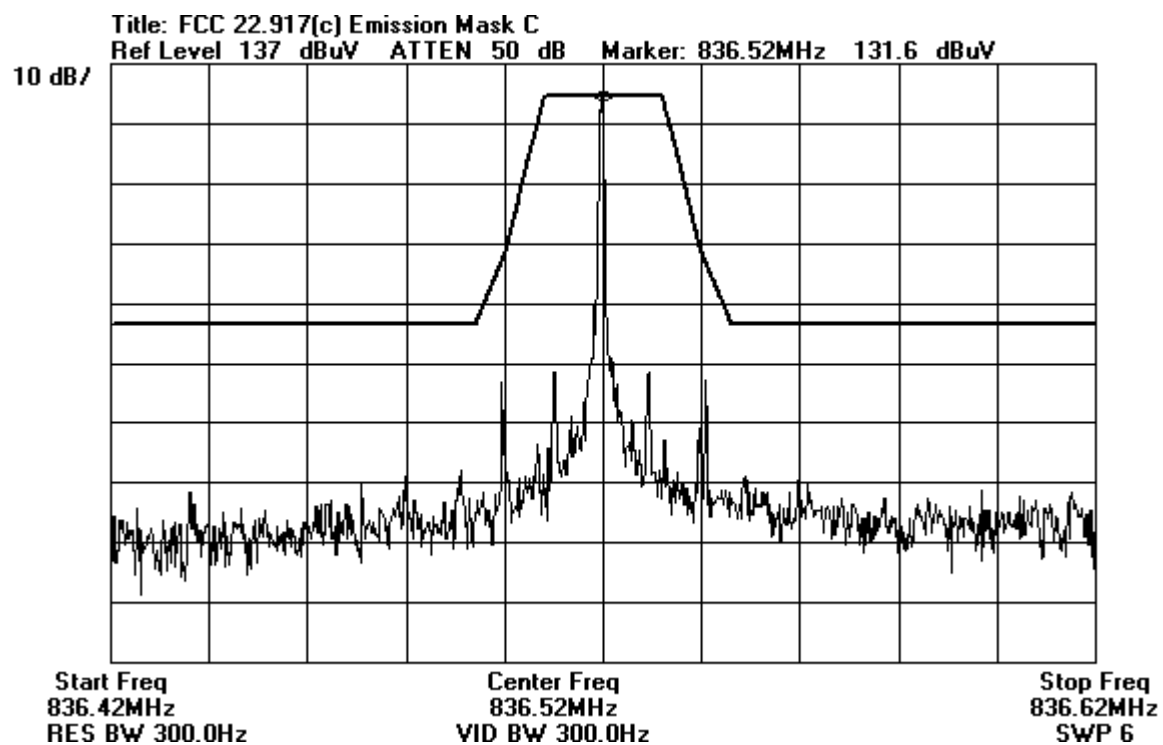
Therefore the breakpoint from a attenuation slope of $-100\text{Log}(F_d/11) \text{ dBc}$ to $43+10 \text{ Log } P$ occurs at $(F_c + 26 \text{ KHz})\text{MHz}$ and $(F_c - 26 \text{ KHz})\text{MHz}$

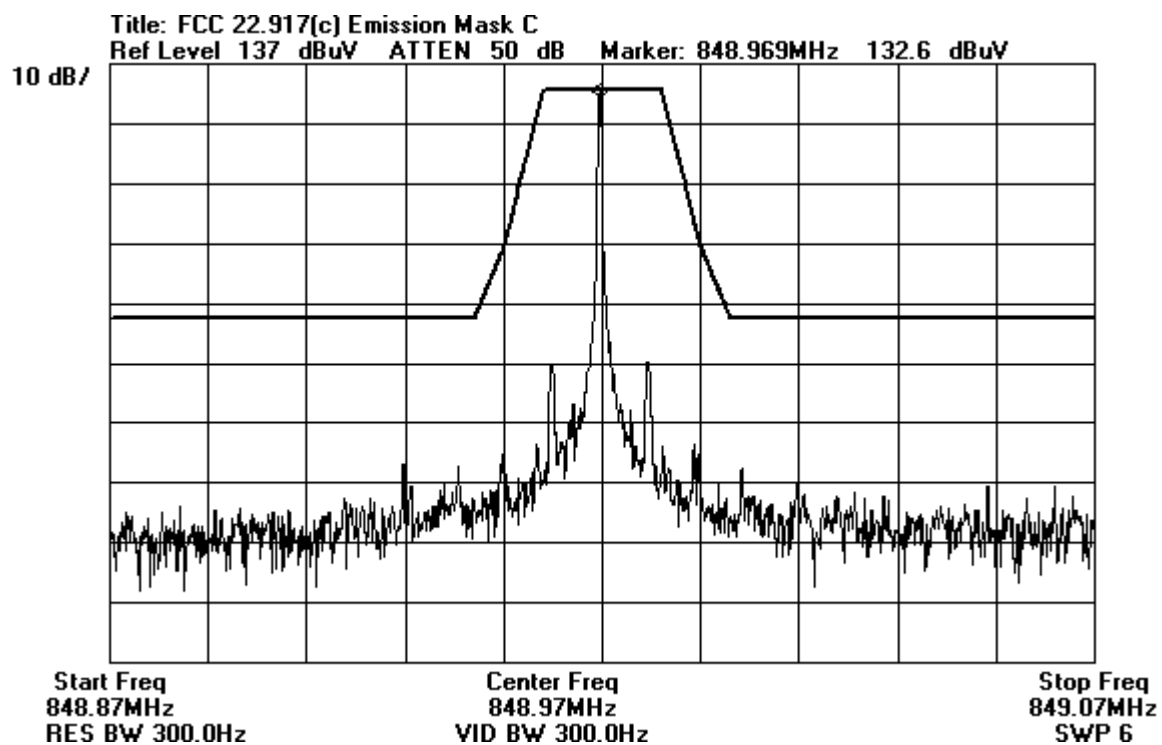
Sample calculation table:

Freq (MHz)	Required attenuation	EMI test limit line
0.009	38.00	91.4
824.014	38.00	91.4
824.014	38.00003068	91.4
824.020	25.964	103.4
824.020	25.95630371	103.4
824.028	0.00	129.4
824.052	0.00	129.4
824.060	25.95630371	103.4
824.060	25.96373105	103.4
824.066	38.00003068	91.4
824.066	38.00	91.4
10000	38.00	91.4

Title: FCC 22.917(c) Emission Mask C







Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 11:57:33
 Equipment: **External CDMA Data Modem** Sequence#: 8
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 824.01MHz. Range of measurement 9 kHz - 30MHz. Required attenuation = $43+10\log(P) = 43+10\log(0.01262) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Active Loop Antenna	T2=Cable #15 120602
------------------------	---------------------

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	21.970M	35.3	+9.9	+0.8			+0.0 42	46.0	94.0	-48.0	None 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 12:01:35
 Equipment: **External CDMA Data Modem** Sequence#: 9
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 836.52MHz Range of measurement 9 kHz - 30MHz. Required attenuation = $43+10\text{Log}(P) = 43+10\text{Log}(0.01384) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Active Loop Antenna	T2=Cable #15 120602
------------------------	---------------------

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	dB	dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.610M	35.5	+9.6	+0.8			+0.0 296	45.9	94.0	-48.1	None 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 12:04:15
 Equipment: **External CDMA Data Modem** Sequence#: 10
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 849.97MHz. Range of measurement 9 kHz - 30MHz. Required attenuation = $43+10\text{Log}(P) = 43+10\text{Log}(0.01384) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Active Loop Antenna	T2=Cable #15 120602
------------------------	---------------------

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	5.880M	35.3	+11.3	+0.4	+0.0 274	47.0	94.0	-47.0	None 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420**
 Test Type: **Maximized Emissions**
 Equipment: **External CDMA Data Modem**
 Manufacturer: AnyDATA.net Incorporated
 Model: EMII-800
 S/N: 0201K10210

Date: 2/22/02
 Time: 11:41:03
 Sequence#: 5
 Tested By: Eddie Wong

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 824.04 MHz. Range of measurement 30 - 1000MHz. Required attenuation = $43+10\log(P) = 43+10\log(0.01262) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	824.040M	117.4	+0.0 -27.6	+21.9	+0.6	+5.7	+0.0 110	118.0	118.0 Un modulated	+0.0	Horiz 127
2	824.040M	117.4	+0.0 -27.6	+21.9	+0.6	+5.7	+0.0 360	118.0	118.0 Un modulated	+0.0	Vert 127
3	824.320M	81.3	+0.0 -27.6	+21.9	+0.6	+5.7	+0.0 360	81.9	94.0 Un modulated	-12.1	Horiz 127
4	823.840M	72.9	+0.0 -27.6	+21.9	+0.6	+5.7	+0.0 247	73.5	94.0 Un modulated	-20.5	Horiz 127
5	825.270M	70.6	+0.0 -27.7	+21.9	+0.6	+5.8	+0.0 360	71.2	94.0 Un modulated	-22.8	Vert 127
6	822.820M	70.1	+0.0 -27.6	+21.9	+0.6	+5.7	+0.0 360	70.7	94.0 Un modulated	-23.3	Vert 127
7	825.290M	68.3	+0.0 -27.7	+21.9	+0.6	+5.8	+0.0 204	68.9	94.0 Un modulated	-25.1	Horiz 127
8	822.830M	68.2	+0.0 -27.6	+21.9	+0.6	+5.7	+0.0 359	68.8	94.0 Un modulated	-25.2	Horiz 127
9	244.000M	34.0	+17.7 -28.2	+0.0	+0.3	+2.9	+0.0 292	26.7	94.0 Noise floor	-67.3	Horiz 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420**
 Test Type: **Maximized Emissions**
 Equipment: **External CDMA Data Modem**
 Manufacturer: AnyDATA.net Incorporated
 Model: EMII-800
 S/N: 0201K10210

Date: 2/22/02
 Time: 11:42:16
 Sequence#: 6
 Tested By: Eddie Wong

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 836.52 MHz. Range of measurement 30 - 1000MHz. Required attenuation = $43+10\log(P) = 43+10\log(0.01384) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	836.521M	117.6	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0	118.4	118.4 Un modulated	+0.0	Horiz 136
2	836.523M	116.2	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 240	117.0	118.4 Un modulated	-1.4	Vert 149
3	836.725M	78.3	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 240	79.1	94.0 Un modulated	-14.9	Vert 149
4	836.733M	75.4	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 301	76.2	94.0 Un modulated	-17.8	Horiz 136
5	837.105M	74.0	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 138	74.8	94.0 Un modulated	-19.2	Vert 149
6	836.243M	73.9	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 240	74.7	94.0 Un modulated	-19.3	Vert 149
7	836.310M	71.5	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 171	72.3	94.0 Un modulated	-21.7	Horiz 136
8	836.085M	69.8	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 279	70.6	94.0 Un modulated	-23.4	Vert 149
9	835.300M	67.9	+0.0 -27.7	+22.0	+0.6	+5.8	+0.0 265	68.6	94.0 Un modulated	-25.4	Horiz 136

10	837.730M	64.4	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 327	65.2	94.0 Un modulated	-28.8	Horiz 136
11	837.730M	60.0	+0.0 -27.7	+22.1	+0.6	+5.8	+0.0 56	60.8	94.0 Un modulated	-33.2	Vert 149
12	831.620M	50.0	+0.0 -27.7	+22.0	+0.6	+5.8	+0.0 90	50.7	94.0 Un modulated	-43.3	Horiz 136
13	184.000M	33.0	+17.2 -28.3	+0.0	+0.3	+2.5	+0.0 20	24.7	94.0 Noise floor	-69.3	Vert 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420**
 Test Type: **Maximized Emissions**
 Equipment: **External CDMA Data Modem**
 Manufacturer: AnyDATA.net Incorporated
 Model: EMII-800
 S/N: 0201K10210

Date: 2/22/02
 Time: 11:43:24
 Sequence#: 7
 Tested By: Eddie Wong

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 848.97 MHz. Range of measurement 30 - 1000MHz. Required attenuation = $43+10\log(P) = 43+10\log(0.01384) = -24\text{dBc}$. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Bicon 092401	T2=Log 331 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	848.971M	116.9	+0.0 -27.7	+22.3	+0.6	+5.8	+0.0 33	117.9	117.9 Un modulated	+0.0	Vert 158
2	848.973M	116.6	+0.0 -27.7	+22.3	+0.6	+5.8	+0.0 68	117.6	117.9 Un modulated	-0.3	Horiz 99
3	849.185M	76.4	+0.0 -27.7	+22.3	+0.6	+5.8	+0.0 323	77.4	94.0 Un modulated	-16.6	Vert 158
4	848.405M	71.3	+0.0 -27.7	+22.2	+0.6	+5.8	+0.0 234	72.2	94.0 Un modulated	-21.8	Vert 158
5	849.545M	69.0	+0.0 -27.7	+22.3	+0.6	+5.8	+0.0 338	70.0	94.0 Un modulated	-24.0	Vert 158
6	847.750M	67.0	+0.0 -27.7	+22.2	+0.6	+5.8	+0.0 332	67.9	94.0 Un modulated	-26.1	Horiz 99
7	847.760M	67.0	+0.0 -27.7	+22.2	+0.6	+5.8	+0.0 39	67.9	94.0 Un modulated	-26.1	Vert 158
8	847.760M	67.0	+0.0 -27.7	+22.2	+0.6	+5.8	+0.0 43	67.9	94.0 Un modulated	-26.1	Vert 158

9	850.210M	66.7	+0.0 -27.7	+22.3	+0.6	+5.8	+0.0 178	67.7	94.0 Un modulated	-26.3	Horiz 99
10	850.200M	65.7	+0.0 -27.7	+22.3	+0.6	+5.8	+0.0 32	66.7	94.0 Un modulated	-27.3	Vert 158
11	274.000M	34.7	+20.0 -28.3	+0.0	+0.3	+3.1	+0.0 147	29.8	94.0 Noise floor	-64.2	Horiz 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATS**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 14:04:15
 Equipment: **External CDMA Data Modem** Sequence#: 8
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 824.04 MHz. Range of measurement 1 - 9 GHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01262) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Horn Antenna sn6246	T2=HP3017A sn3123A00281 11-Sept-01
T3=Heliac #18 70' 11Sept2001	T4=1.5 GHz HPF

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	1648.110M	66.3	+25.1	-38.6	+3.5	+0.8	+0.0 360	57.1	94.0	-36.9	Vert 113
2	1648.000M	59.9	+25.1	-38.6	+3.5	+0.8	+0.0 123	50.7	94.0	-43.3	Horiz 100
3	1081.000M	60.8	+24.0	-40.2	+2.8	+0.0	+0.0 4	47.4	94.0	-46.6	Vert 99
4	2472.130M	53.0	+27.7	-38.7	+4.2	+0.3	+0.0 360	46.5	94.0	-47.5	Vert 113

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 14:09:28
 Equipment: **External CDMA Data Modem** Sequence#: 9
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 836.52 MHz. Range of measurement 1 - 9GHz. Required attenuation = 43+10Log (P) = 43+10 Log (0.01384) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Horn Antenna sn6246	T2=HP3017A sn3123A00281 11-Sept-01
T3=Helix #18 70' 11Sept2001	T4=1.5 GHz HPF

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	1673.000M	62.5	+25.2	-38.6	+3.6	+0.9	+0.0	53.6	94.0	-40.4	Vert 113
2	1081.000M	66.7	+24.0	-40.2	+2.8	+0.0	+0.0 42	53.3	94.0	-40.7	Vert 107
3	1673.000M	59.5	+25.2	-38.6	+3.6	+0.9	+0.0 127	50.6	94.0	-43.4	Horiz 100
4	2510.000M	46.4	+27.8	-38.9	+4.1	+0.2	+0.0 198	39.6	94.0	-54.4	Vert 113

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(c) Emission Mask OATs**
 Work Order #: **78420** Date: 2/22/02
 Test Type: **Maximized Emissions** Time: 14:16:59
 Equipment: **External CDMA Data Modem** Sequence#: 10
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

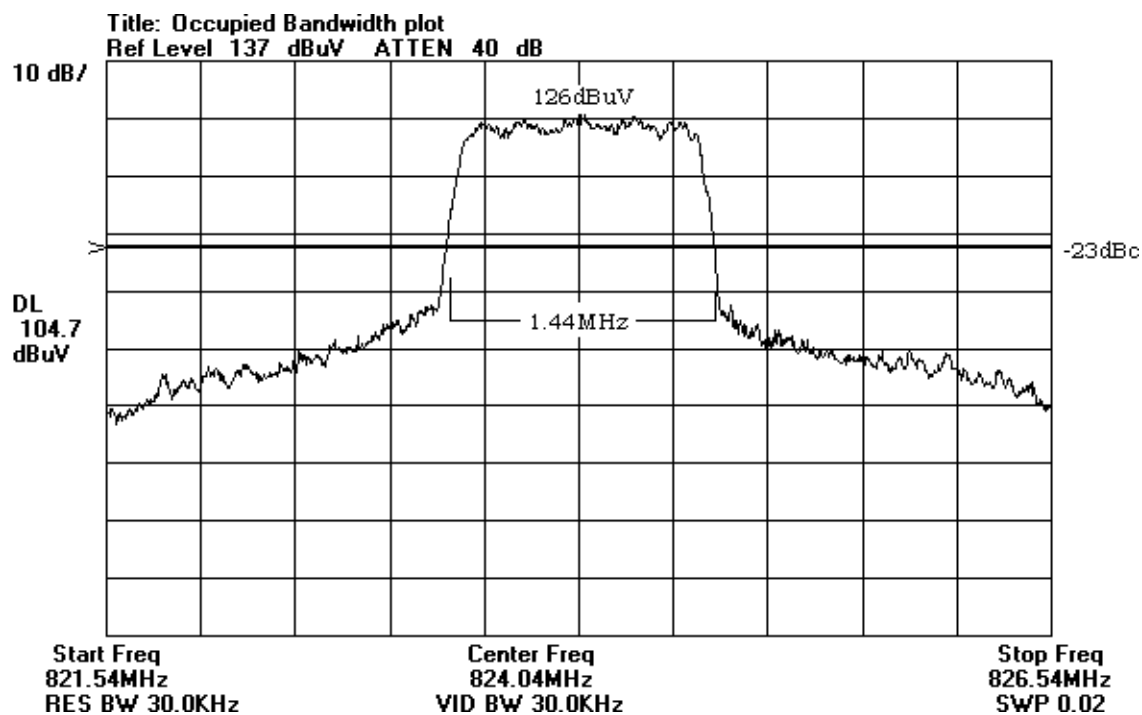
EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=30kHz. Tx = 848.97 MHz. Range of measurement 1-9 GHz Required attenuation = 43+10Log (P) = 43+10 Log (0.01384) = -24dBc. 12Vdc, 23°C, 45% relative humidity.

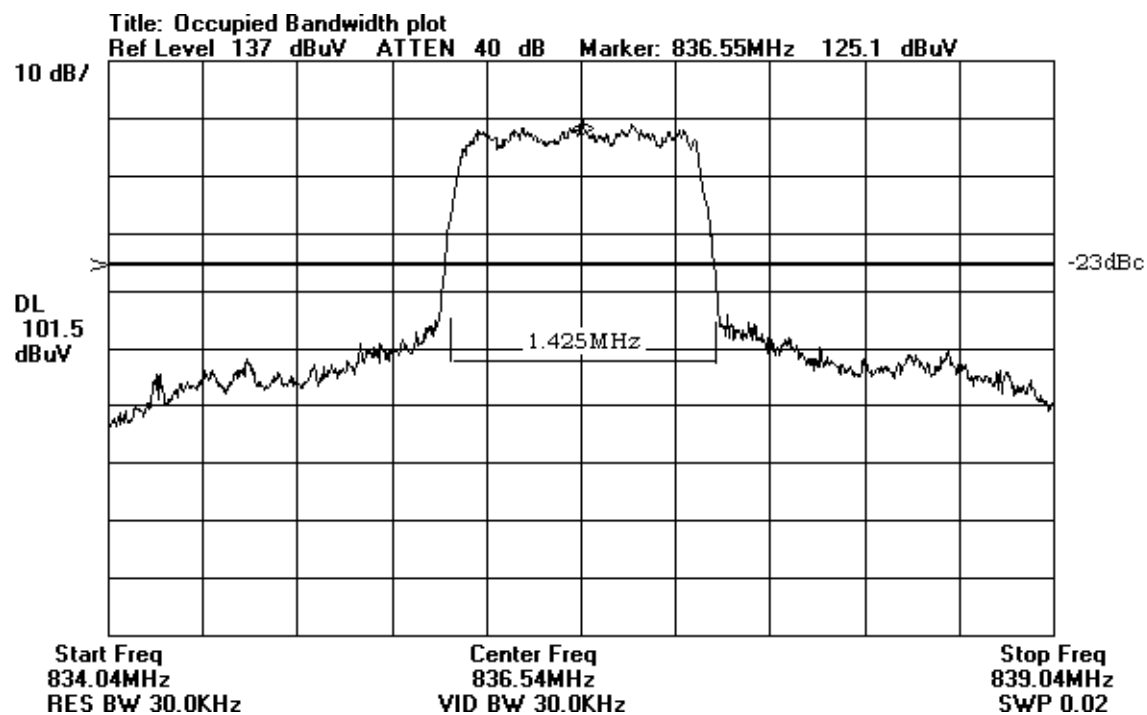
Transducer Legend:

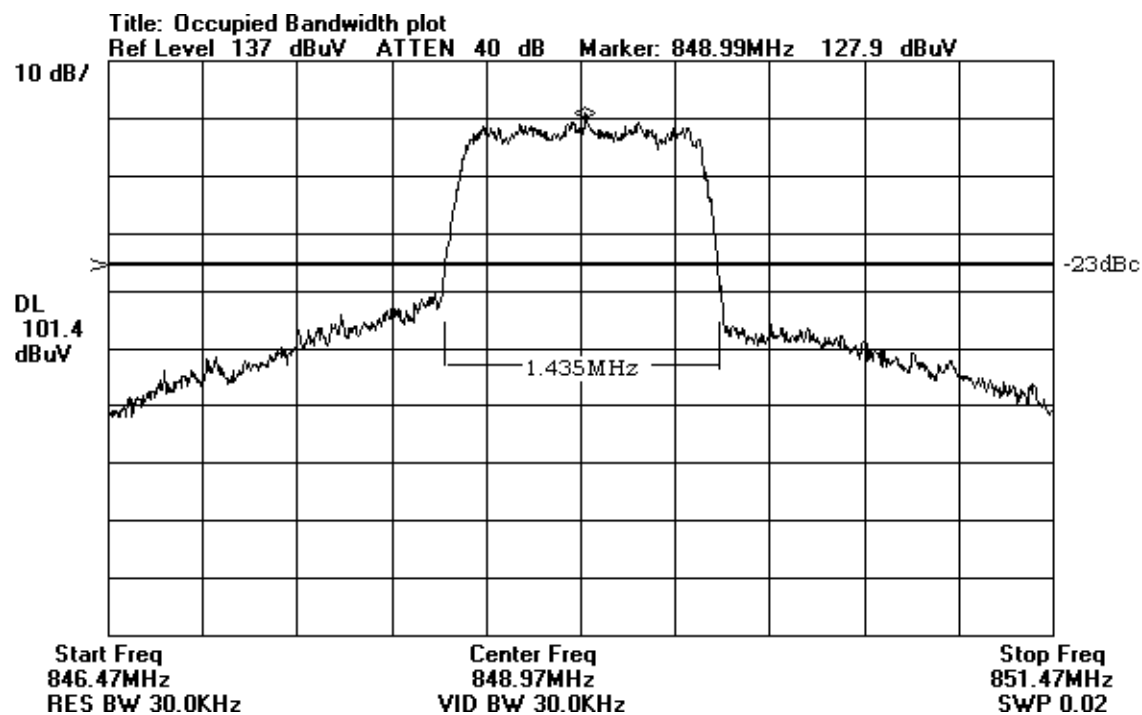
T1=Horn Antenna sn6246	T2=HP3017A sn3123A00281 11-Sept-01
T3=Helix #18 70' 11Sept2001	T4=1.5 GHz HPF

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2423.000M	68.6	+27.6	-38.4	+4.3	+0.3	+0.0 167	62.4	94.0	-31.6	Horiz 100
2	1951.000M	69.1	+26.2	-38.4	+3.8	+0.6	+0.0 247	61.3	94.0	-32.7	Horiz 107
3	1698.000M	69.7	+25.3	-38.6	+3.6	+0.7	+0.0 57	60.7	94.0	-33.3	Horiz 107
4	1699.000M	60.6	+25.3	-38.6	+3.6	+0.7	+0.0 88	51.6	94.0	-42.4	Vert 113
5	1035.000M	63.4	+24.0	-40.5	+2.7	+0.0	+0.0 1	49.6	94.0	-44.4	Vert 107
6	2546.600M	52.9	+28.0	-38.8	+4.2	+0.2	+0.0 225	46.5	94.0	-47.5	Vert 100
7	2416.000M	47.5	+27.6	-38.4	+4.3	+0.3	+0.0 277	41.3	94.0	-52.7	Vert 113







Antenna terminal

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Signal Generator	00089	HP	8656A	2245A04166	090201	090602

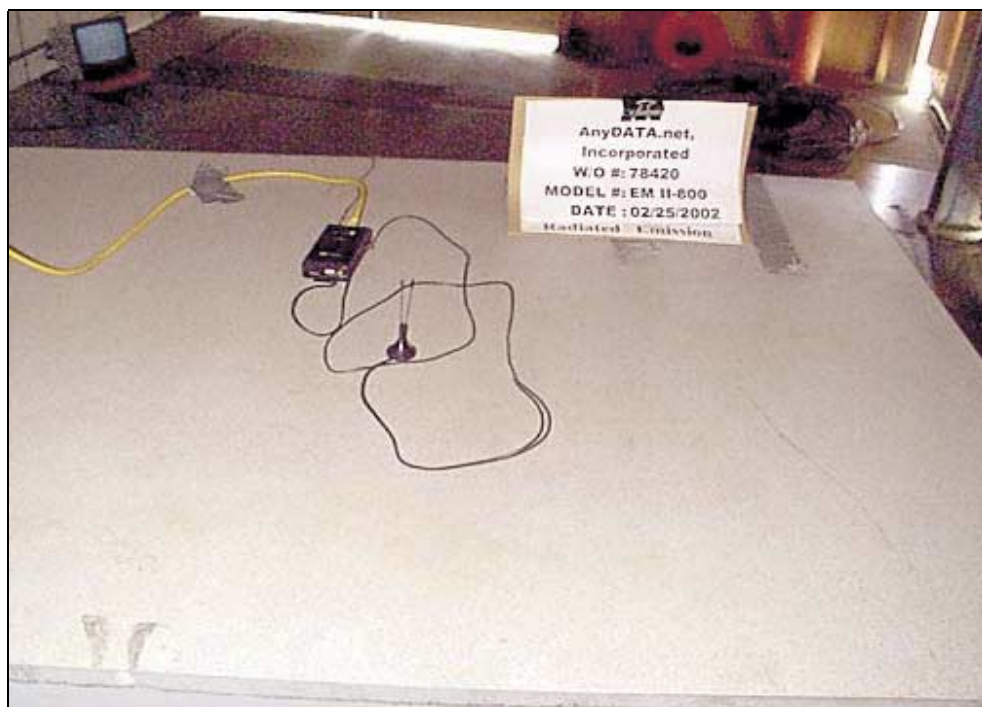
(Open Area Test Site)

30- 1000 MHz

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
9 kHz- 30 MHz						
Spectrum Analyzer	02467	Agilent	E7405A	US40240225	041001	041002
Antenna cable	NA	NA	RG214	Cable#15	122001	122002
Active loop antenna	2014	Emco	6502	2014	073101	073102
30- 1000 MHz						
Spectrum Analyzer	02467	Agilent	E7405A	US40240225	041001	041002
Bicon Antenna	306	AH	SAS200/540	220	092401	092402
Log Periodic Antenna	331	AH	SAS 00/516	330	092401	092402
Pre-amp	00309	HP	8447D	1937A02548	090501	090502
Antenna cable	NA	NA	RG214	Cable#15	122001	122002
Pre-amp to SA cable	NA	Harbour	RG223/U	Cable#10	071601	071602
1000-90,000 MHz						
Spectrum Analyzer	02467	Agilent	E7405A	US40240225	041001	041002
Horn Antenna	0646	EMCO	3115	4683	022801	022802
Microwave Pre-amp	00786	HP	83017A	3123A00281	091201	091202
¼" Helix Coaxial Cable	NA	Andrew	LDF1-50	Cable#18 (70 ft)	091101	091102
High Pas Filter	01415	HP	84300-80037	3643A00026	021901	021902

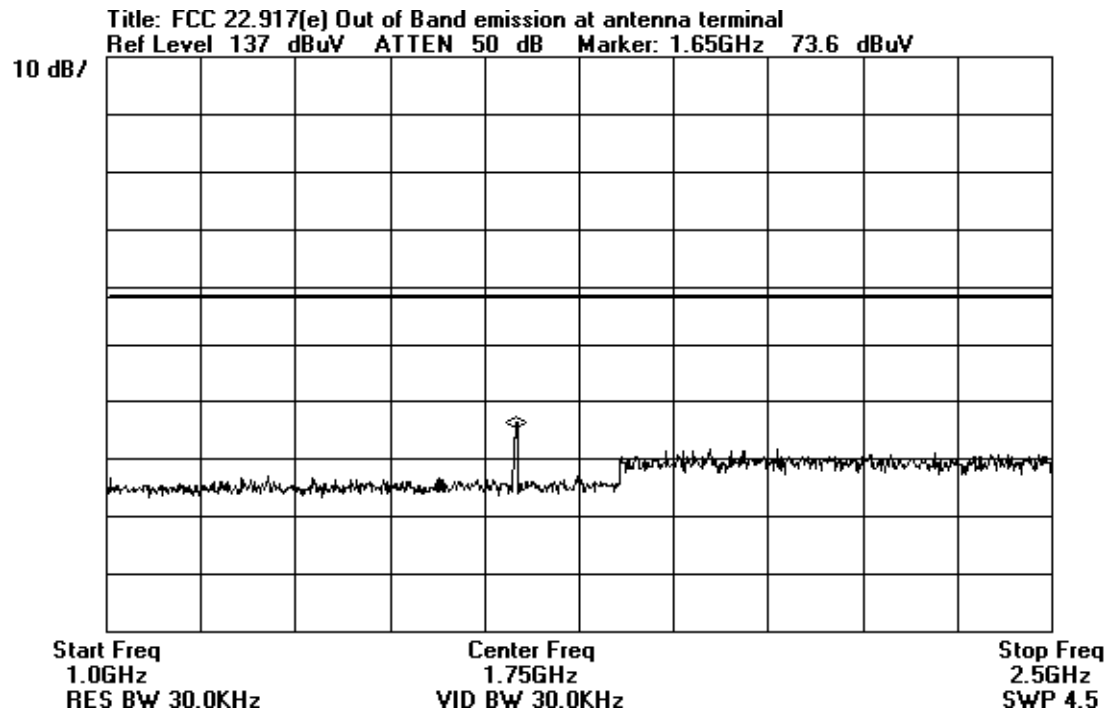


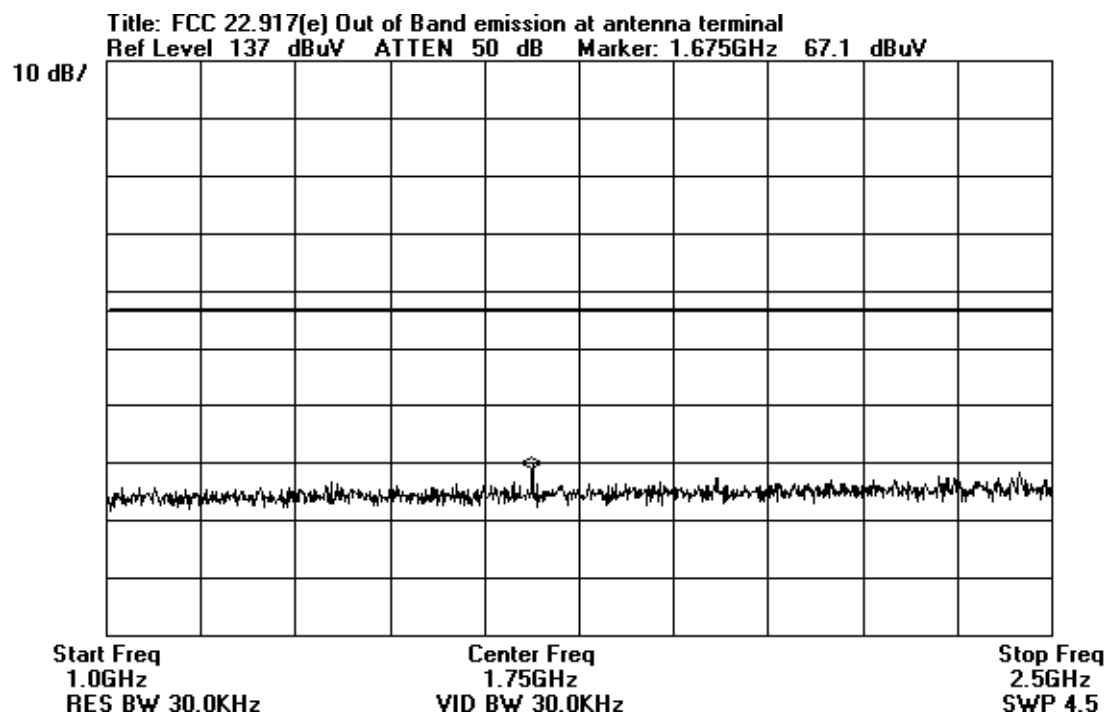
OATS Test Setup - Front View

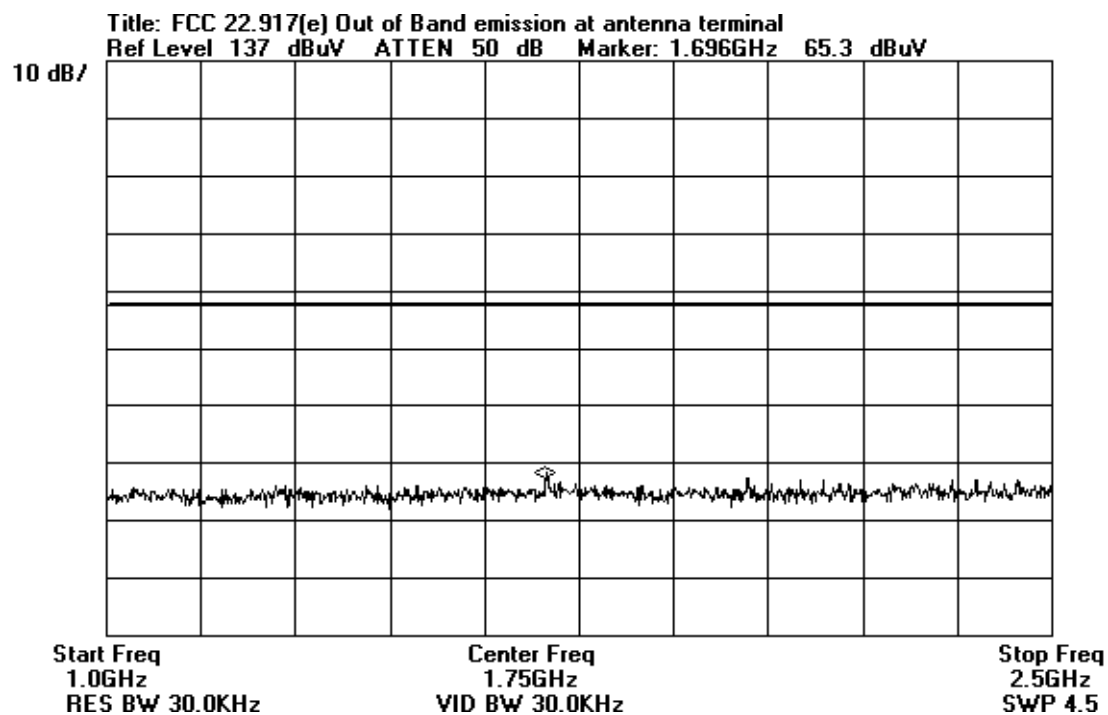


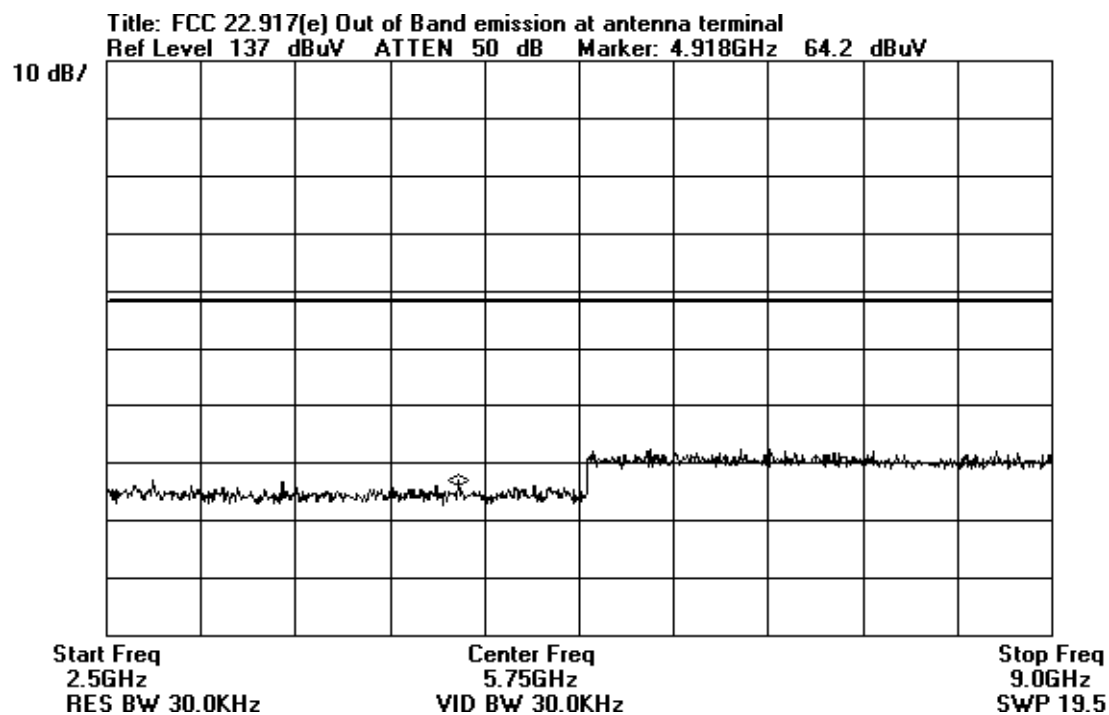
OATS Test Setup - Back View

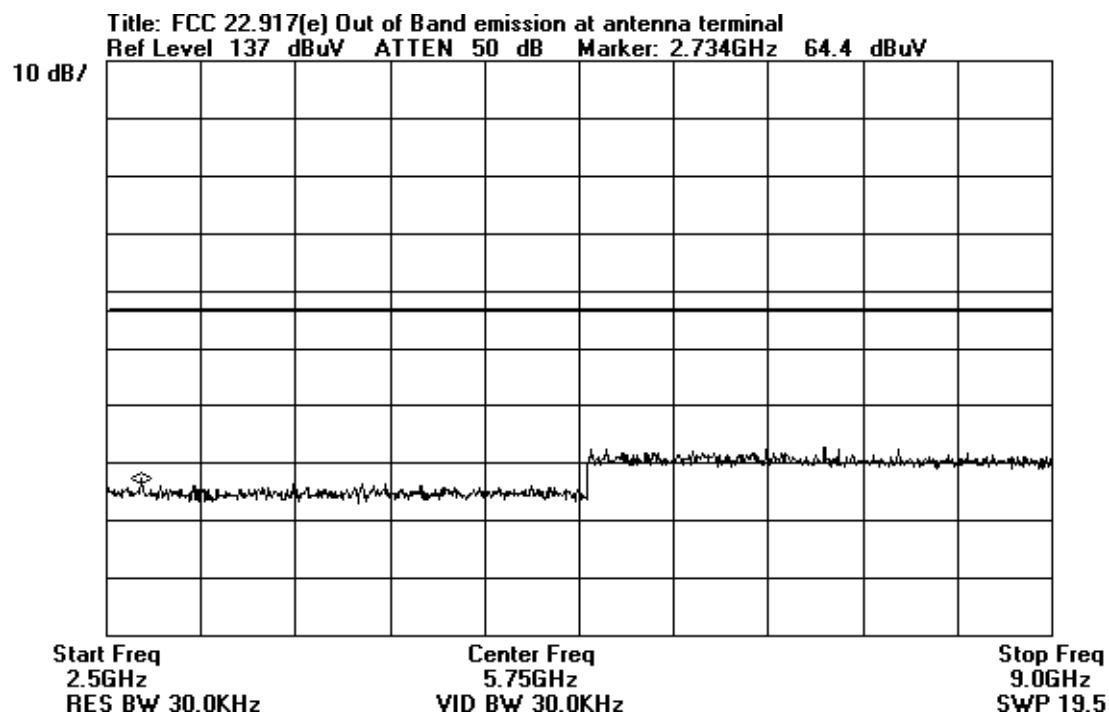
2.1033(c)(14)/2.1051/22.917(e)- OUT OF BANDEMISSIONS AT ANTENNA TERMINAL

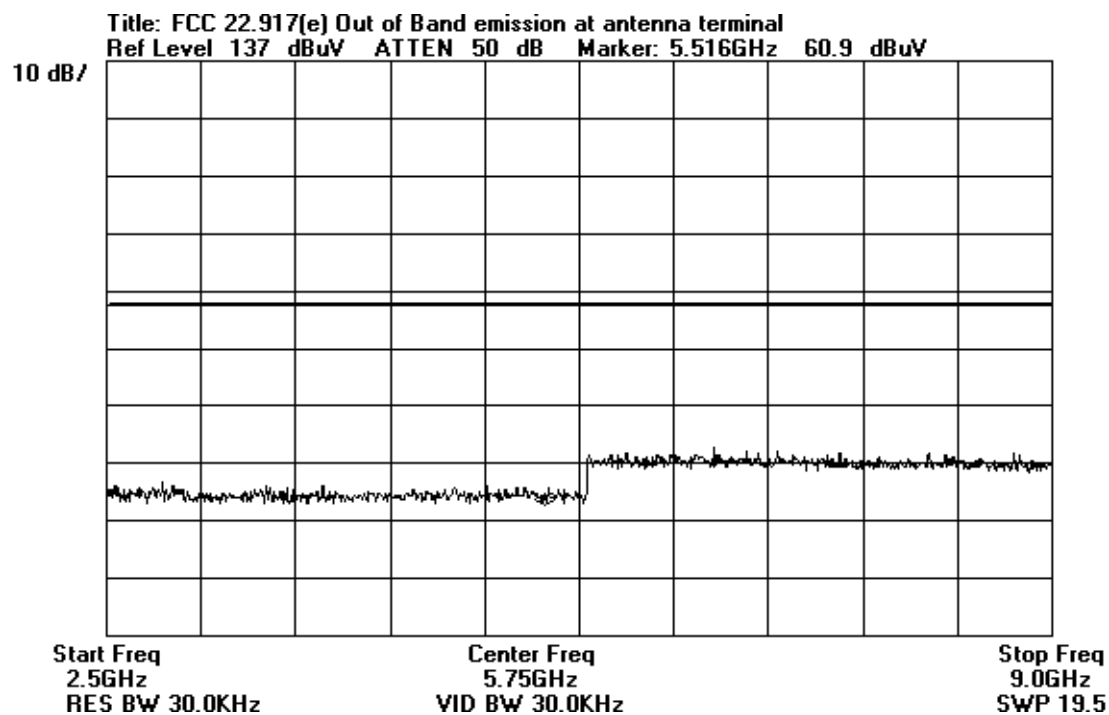


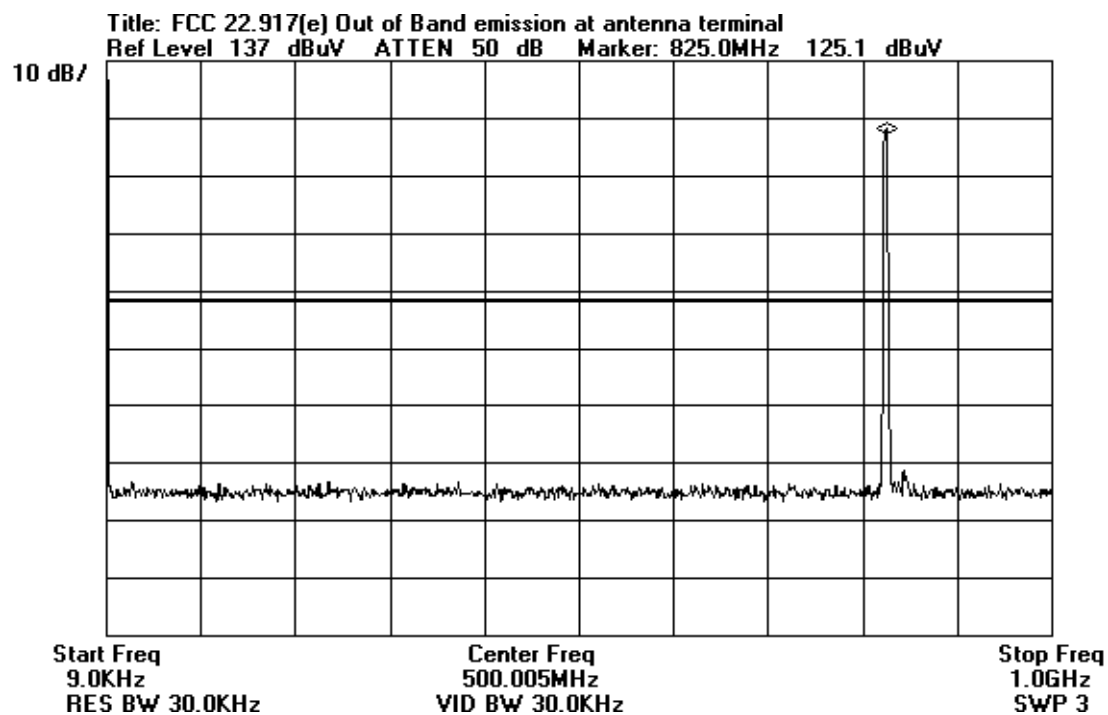


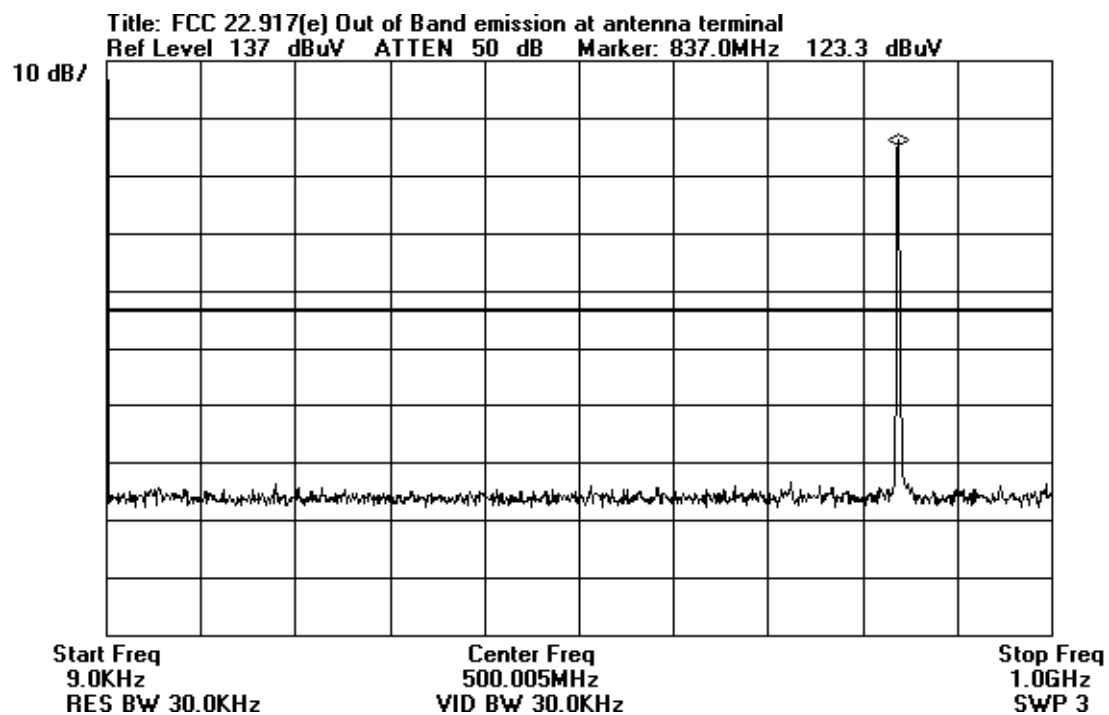


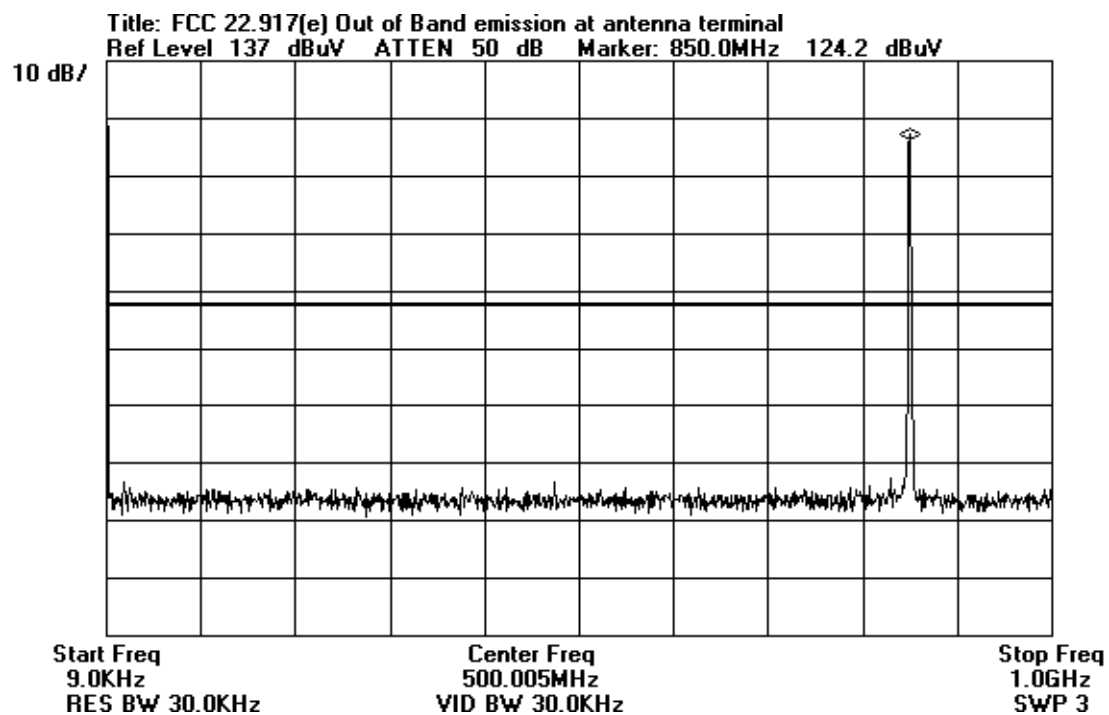












Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(e) Out of band emissions Ant term**
 Work Order #: **78420** Date: 2/21/02
 Test Type: **Conducted Emissions** Time: 10:16:54
 Equipment: **External CDMA Data Modem** Sequence#: 2
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
spectrum analyzer	hp	12/28/2001	12/28/2001	5566

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Out of Band emission. EUT operate in wide band data mode. Tx = 824.04MHz. Required attenuation = 43+10 Log P dB= -39.2 dBc RBW=VBW=30KHz. Range of measurement = 9 KHz-9 GHz. 12Vdc, 20°C, 57% relative humidity.

Transducer Legend:

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Measurement Data: Reading listed by margin. Test Lead: Antenna terminal

#	Freq MHz	Rdng dBμV					Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	825.974M	83.3					+0.0	83.3	95.3	-12.0	Anten
2	822.305M	80.3					+0.0	80.3	95.3	-15.0	Anten
3	1648.470M	73.1					+0.0	73.1	95.3	-22.2	Anten

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(e) Out of Band emission Ant term**
 Work Order #: **78420** Date: 2/21/02
 Test Type: **Conducted Emissions** Time: 10:42:55
 Equipment: **External CDMA Data Modem** Sequence#: 3
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Out of Band emission. EUT operate in wide band data mode. Tx = 836.52MHz. Required attenuation = 43+10 Log P dB= -37.6 dBc RBW=VBW=30KHz. Range of measurement = 9 KHz-9 GHz. 12Vdc, 20°C, 57% relative humidity.

Transducer Legend:

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Measurement Data: Reading listed by margin.

Test Lead: Antenna terminal

#	Freq MHz	Rdng dB μ V					Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	834.605M	79.7					+0.0	79.7	93.6	-13.9	Anten
2	1672.680M	68.5					+0.0	68.5	93.6	-25.1	Anten

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 22.917(e) Out of Band emission Ant term**
 Work Order #: **78420** Date: 2/21/02
 Test Type: **Conducted Emissions** Time: 10:57:24
 Equipment: **External CDMA Data Modem** Sequence#: 4
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Out of Band emission. EUT operate in wide band data mode. Tx = 848.97MHz. Required attenuation = 43+10 Log P dB= -38.6 dBc RBW=VBW=30KHz. Range of measurement = 9 KHz-9 GHz. 12Vdc, 20°C, 57% relative humidity.

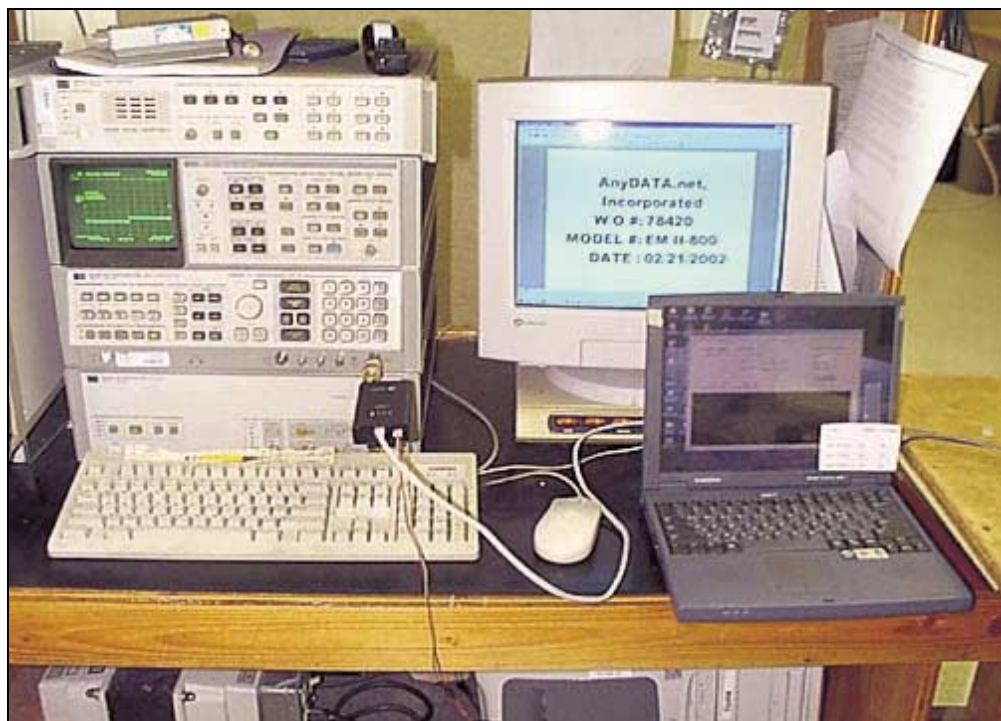
Transducer Legend:

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Measurement Data: Reading listed by margin. Test Lead: Antenna terminal

#	Freq MHz	Rdng dBμV	dB	dB	dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	846.780M	75.4					+0.0	75.4	94.6	-19.2	Anten
2	1699.500M	65.7					+0.0	65.7	94.6	-28.9	Anten

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
Signal Generator	00089	HP	8656A	2245A04166	090201	090602



Direct Connect Test Setup



Direct Connect Test Setup

2.1033(c)(14)/2.1053/22.917(e) OUT OF BAND EMISSIONS - OATS
Not Applicable

2.1033(c)(14)/2.1055/22.355 FREQUENCY STABILITY

Frequency Stability

Customer:	AnyData.net
WO:	78420
Model:	EMII - 800
FCC Part:	2.1055 / 22.355
Test Engineer:	Randal Clark

Ambient Temperature:	72.00	22.2 °C
Relative Humidity:	41	%
Authorized Band:	824.04-848.97	MHz
CH1 Operating Frequency in MHz:	824.04	MHz
CH2 Operating Frequency in MHz:	836.52	MHz
CH3 Operating Frequency in MHz:	848.97	MHz
CH1 Frequency Limit:	1236	(1.5 PPM)
CH2 Frequency Limit:	1255	(1.5 PPM)
CH3 Frequency Limit:	1273	(1.5 PPM)
Nominal Operating Voltage:	12.00	VDC
85% of Nominal (V-)	10.20	VDC
115% of Nominal (V+)	13.80	VDC

Maximum Deviation:	680.00	PPM
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Temperature Stability

Channel 1		
Frequency MHz	Frequency Error PPM	Pass/Fail
-30°	824.039900	-100 PASS
-20°C	824.039870	-130 PASS
-10°C	824.039860	-140 PASS
0°C	824.040340	340 PASS
+10°C	824.040000	0 PASS
+20°C	824.040010	10 PASS
+30°C	824.040190	190 PASS
+40°C	824.040380	380 PASS
+50°C	824.040580	580 PASS

Channel 2			
	Frequency MHz	Frequency Error PPM	Pass/Fail
-30°	836.519870	-130	PASS
-20°C	836.520010	10	PASS
-10°C	836.520040	40	PASS
0°C	836.520230	230	PASS
+10°C	836.520020	20	PASS
+20°C	836.520070	70	PASS
+30°C	836.520310	310	PASS
+40°C	836.520500	500	PASS
+50°C	836.520570	570	PASS

Channel 3			
	Frequency MHz	Frequency Error PPM	Pass/Fail
-30°	848.969950	-50	PASS
-20°C	848.970010	10	PASS
-10°C	848.970060	60	PASS
0°C	848.970150	150	PASS
+10°C	848.970070	70	PASS
+20°C	848.970150	150	PASS
+30°C	848.970390	390	PASS
+40°C	848.970620	620	PASS
+50°C	848.970540	540	PASS

Voltage Variations

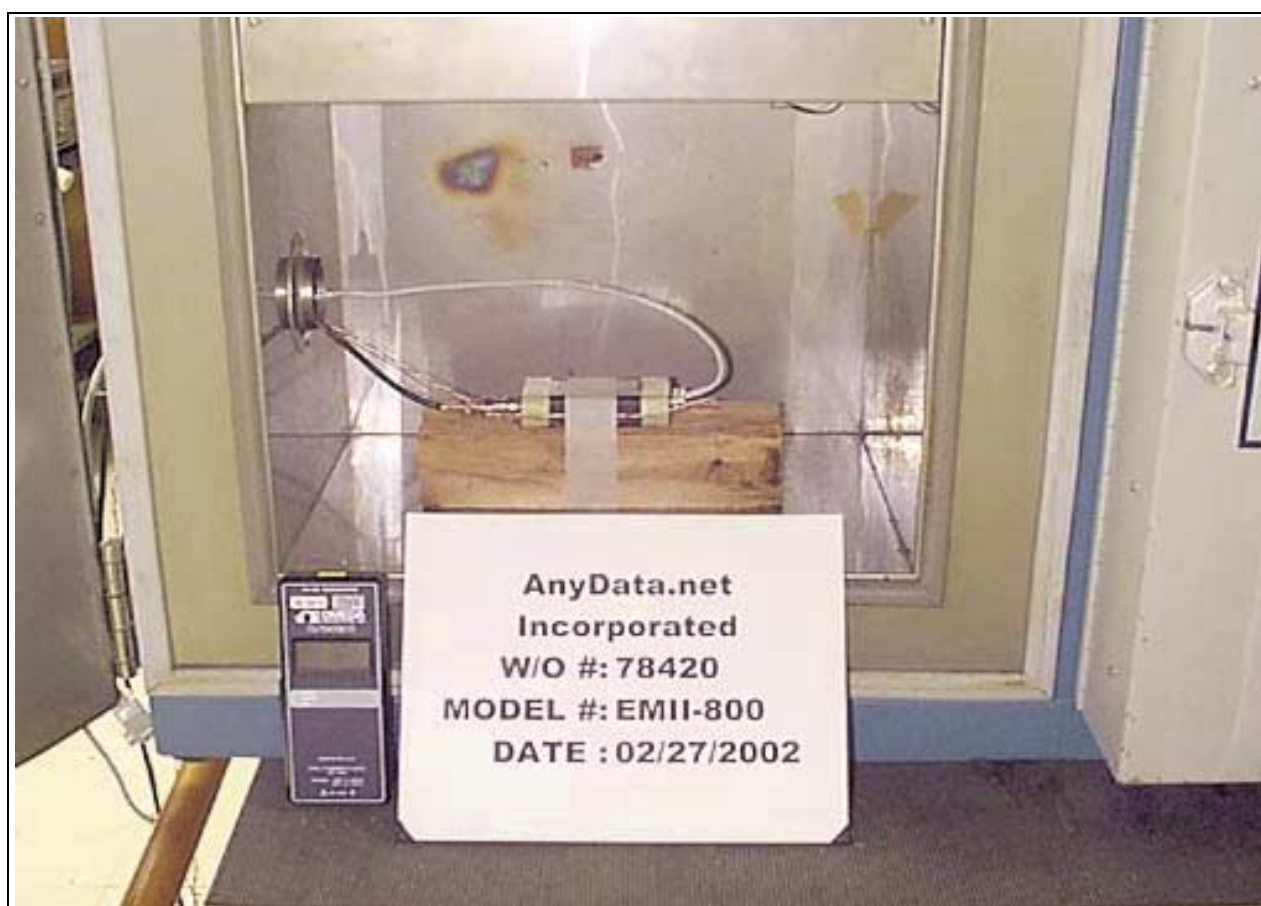
Ambient Temperature is 22.0 °C

Channel 1			
Voltage	Frequency MHz	Frequency Error PPM	Pass/Fail
10.2	824.040670	670	PASS
12.0	824.040640	640	PASS
13.8	824.040630	630	PASS

Channel 2			
Voltage	Frequency MHz	Frequency Error PPM	Pass/Fail
10.2	836.520650	650	PASS
12.0	836.520660	660	PASS
13.8	836.520650	650	PASS

Channel 3			
Voltage	Frequency MHz	Frequency Error PPM	Pass/Fail
10.2	848.970670	670	PASS
12.0	848.970680	680	PASS
13.8	848.970670	670	PASS

<i>Equipment</i>	<i>Manufacturer</i>	<i>Model #</i>	<i>Serial #</i>	<i>Asset #</i>	<i>Cal Date</i>	<i>Cal Due</i>
Frequency Counter	HP	5340A	1532A03198	01253	9/5/01	9/5/02
Power Supply, DC	HP	6205C	2228A01775	00762	5/31/2001	5/31/02
QP Adapter	HP	85650A	2811A01267	00478	1/30/02	1/30/03
S/A Display	HP	8566B	2403A08241	00489	1/30/02	1/30/03
Spectrum Analyzer	HP	8566B	2209A01404	00490	1/30/02	1/30/03
Temp Chamber	Thermotron	S-1.2 MiniMax	11899	01879	3/29/2001	3/29/02
Thermometer	Omega	HH-26K	T-202884	02242	7/26/01	7/26/02



Temperature Testing Setup

2.1091 – MPE CALCULATIONS

Maximum Permissible Exposure Calculations

Date of Report: February 26th, 2002

Calculations prepared for:
AnyDATA.net Incorporated
18902 Bardeen Ave.
Irvine, CA 92612

Calculations prepared by:
Eddie Wong
110 N. Olinda Place
Brea, CA 9283

Model Number: EMII-800
FCC Identification:

Fundamental Operating Frequency: 824.04-848.97MHz

Maximum Rated Output Power: 0.3162Watts
Measured Maximum Output Power: 0.16 watts ERP

MPE limit in accordance with FCC part 1.1311, table 1

Limit for Maximum permissible exposure: (B) Limit for General population/uncontrolled Exposure.

For frequency range of 300-1500 MHz , the MPE is $f / 1500$ (mW/cm²)

Power Output (Watts)	Distance (Meters)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.3162	0.2	0.1031	0.5573	PASS
0.1600	0.2	0.0522	0.5573	PASS

$$\text{Power Density (W/M}^2\text{)} = (30 * P_t * G) / (d^2 * Z_o)$$

P_t = Power Delivered to the Antenna

G = Antenna Gain

d = Distance in meters

Z_o = Impedance of Free Space

Under normal operating conditions, the antenna is designed to maintain a separation distance of 20 cm from all persons. As can be seen from the MPE results, this device passes the limits specified in 1.1311 at a distance of 20 cm and at the rated output power of 0.3162 Watts

15.107 – AC CONDUCTED EMISSIONS – RECEIVER/DIGITAL

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 13:49:11

Equipment: **External CDMA Data Modem**

Sequence#: 17

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 450KHz-30MHz . 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

Measurement Data:

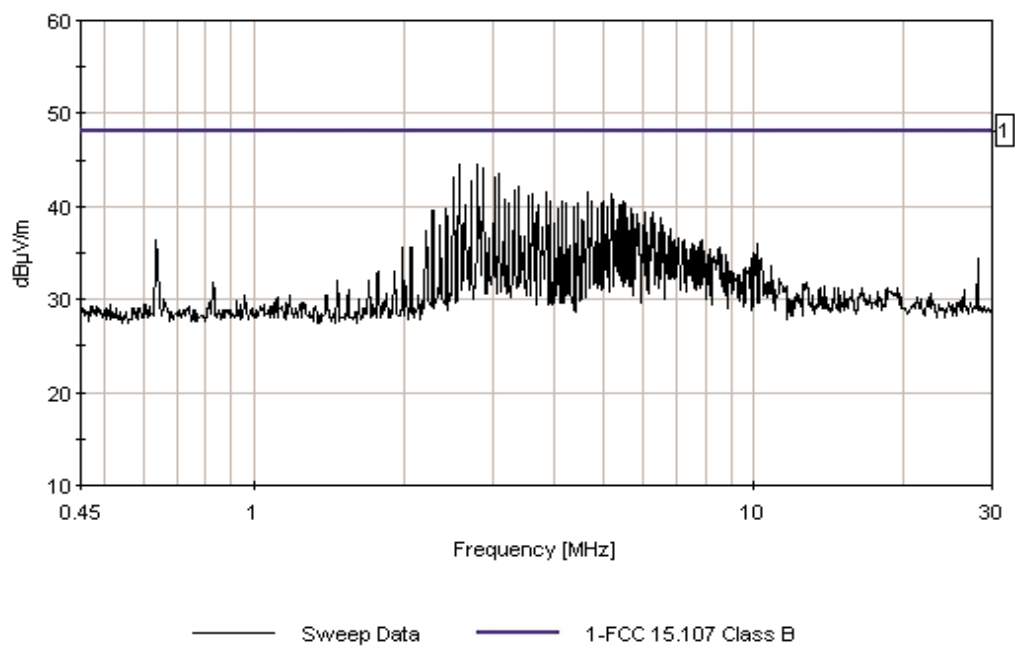
Reading listed by margin.

Test Lead: Black

#	Freq MHz	Rdng dBμV	dB	dB	dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2.795M	43.6					+0.0	43.6	48.0	-4.4	Black
QP											
^	2.795M	44.6					+0.0	44.6	48.0	-3.4	Black
3	3.091M	43.6					+0.0	43.6	48.0	-4.4	Black
4	2.504M	43.2					+0.0	43.2	48.0	-4.8	Black
5	3.022M	43.1					+0.0	43.1	48.0	-4.9	Black
6	2.728M	42.7					+0.0	42.7	48.0	-5.3	Black

7	2.580M	42.4	+0.0	42.4	48.0	-5.6	Black
QP							
^	2.580M	44.6	+0.0	44.6	48.0	-3.4	Black
9	2.872M	42.1	+0.0	42.1	48.0	-5.9	Black
QP							
^	2.872M	44.1	+0.0	44.1	48.0	-3.9	Black
11	3.385M	42.1	+0.0	42.1	48.0	-5.9	Black
12	3.313M	41.7	+0.0	41.7	48.0	-6.3	Black
13	4.670M	41.5	+0.0	41.5	48.0	-6.5	Black
14	3.851M	41.5	+0.0	41.5	48.0	-6.5	Black
15	5.175M	41.3	+0.0	41.3	48.0	-6.7	Black
16	3.607M	41.3	+0.0	41.3	48.0	-6.7	Black
17	3.535M	41.2	+0.0	41.2	48.0	-6.8	Black
18	3.168M	40.7	+0.0	40.7	48.0	-7.3	Black

CKC Laboratories, Inc. Date: 02/25/2002 Time: 1:42:43 PM WO#: 78420
FCC 15.107 Class B Test Lead: Black Sequence#: 17



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 1:49:48 PM

Equipment: **External CDMA Data Modem**

Sequence#: 18

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

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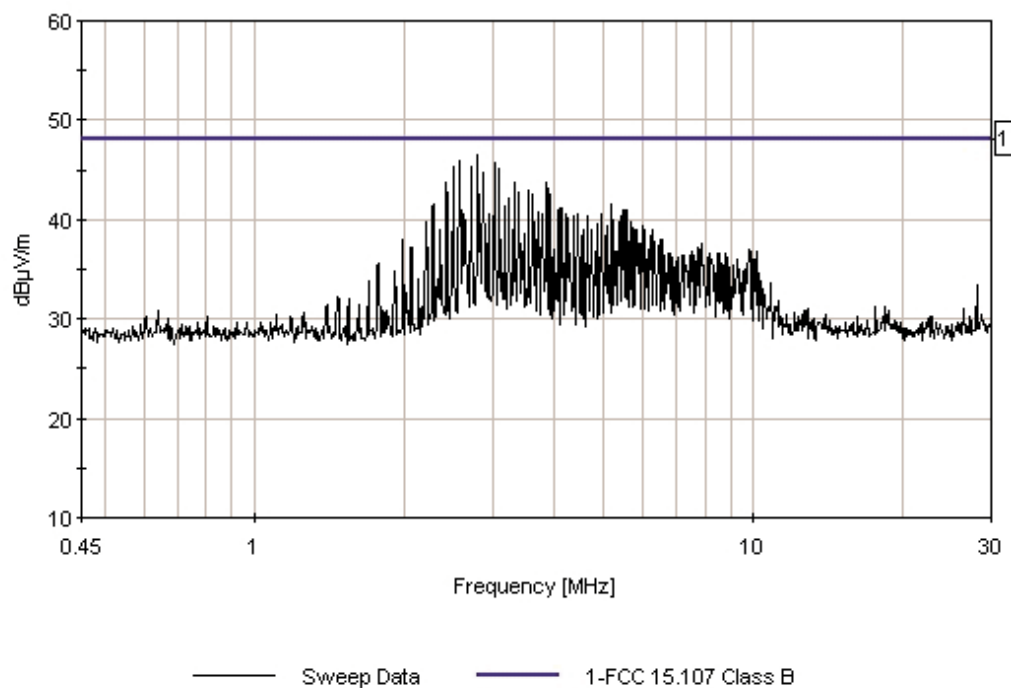
Measurement Data: Reading listed by margin.

Test Lead: White

#	Freq MHz	Rdng dB μ V	dB	dB	dB	dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	2.798M	45.4					+0.0	45.4	48.0	-2.6	White
QP											
^	2.800M	46.5					+0.0	46.5	48.0	-1.5	White
3	2.577M	45.1					+0.0	45.1	48.0	-2.9	White
QP											
^	2.580M	46.0					+0.0	46.0	48.0	-2.0	White
5	3.022M	44.7					+0.0	44.7	48.0	-3.3	White
QP											
^	3.022M	45.8					+0.0	45.8	48.0	-2.2	White
7	2.503M	44.4					+0.0	44.4	48.0	-3.6	White
QP											
^	2.509M	45.3					+0.0	45.3	48.0	-2.7	White
9	2.724M	44.0					+0.0	44.0	48.0	-4.0	White
QP											
^	2.728M	45.3					+0.0	45.3	48.0	-2.7	White

11	3.092M	43.9	+0.0	43.9	48.0	-4.1	White
QP							
^	3.096M	45.1	+0.0	45.1	48.0	-2.9	White
13	3.851M	43.8	+0.0	43.8	48.0	-4.2	White
14	3.313M	43.7	+0.0	43.7	48.0	-4.3	White
15	2.427M	43.7	+0.0	43.7	48.0	-4.3	White
16	2.871M	43.5	+0.0	43.5	48.0	-4.5	White
QP							
^	2.876M	44.8	+0.0	44.8	48.0	-3.2	White
18	3.535M	42.9	+0.0	42.9	48.0	-5.1	White
19	3.392M	42.7	+0.0	42.7	48.0	-5.3	White
20	3.933M	42.6	+0.0	42.6	48.0	-5.4	White
21	3.612M	42.5	+0.0	42.5	48.0	-5.5	White
22	3.239M	42.1	+0.0	42.1	48.0	-5.9	White

CKC Laboratories, Inc.	Date: 02/25/2002	Time: 1:49:48 PM	VVO#: 78420
FCC 15.107 Class B	Test Lead: White	Sequence#: 18	



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 2:05:16 PM

Equipment: **External CDMA Data Modem**

Sequence#: 20

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

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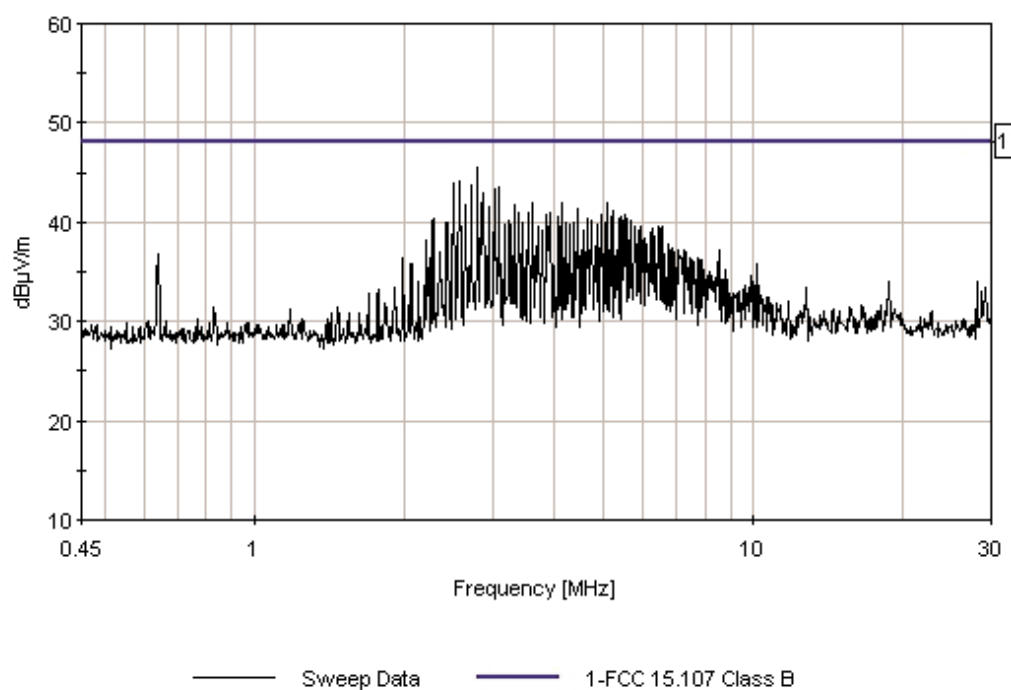
Measurement Data: Reading listed by margin.

Test Lead: Black

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2.796M	44.5					+0.0	44.5	48.0	-3.5	Black
QP											
^	2.800M	45.6					+0.0	45.6	48.0	-2.4	Black
3	2.504M	43.9					+0.0	43.9	48.0	-4.1	Black
4	2.728M	43.8					+0.0	43.8	48.0	-4.2	Black
5	3.091M	43.5					+0.0	43.5	48.0	-4.5	Black
6	2.575M	43.3					+0.0	43.3	48.0	-4.7	Black
QP											
^	2.580M	44.1					+0.0	44.1	48.0	-3.9	Black
8	3.022M	43.3					+0.0	43.3	48.0	-4.7	Black
9	2.872M	43.0					+0.0	43.0	48.0	-5.0	Black
10	5.107M	42.0					+0.0	42.0	48.0	-6.0	Black

11	4.152M	42.0	+0.0	42.0	48.0	-6.0	Black
12	3.612M	41.9	+0.0	41.9	48.0	-6.1	Black
13	3.316M	41.8	+0.0	41.8	48.0	-6.2	Black
14	2.647M	41.8	+0.0	41.8	48.0	-6.2	Black
15	2.943M	41.5	+0.0	41.5	48.0	-6.5	Black
16	4.445M	41.4	+0.0	41.4	48.0	-6.6	Black
17	5.257M	41.1	+0.0	41.1	48.0	-6.9	Black

CKC Laboratories, Inc. Date: 02/25/2002 Time: 2:05:16 P WFO#: 78420
FCC 15.107 Class B Test Lead: Black Sequence#: 20



Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 1:58:17 PM

Equipment: **External CDMA Data Modem**

Sequence#: 19

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

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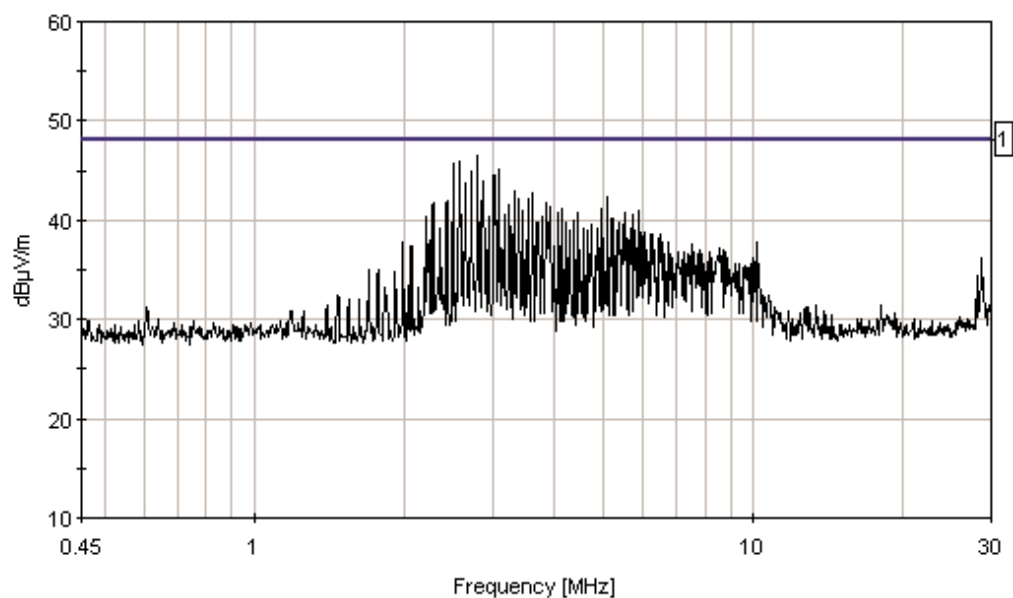
Measurement Data: Reading listed by margin.

Test Lead: White

#	Freq MHz	Rdng dB μ V	dB	dB	dB	dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	2.796M	45.7					+0.0	45.7	48.0	-2.3	White
QP											
^	2.800M	46.5					+0.0	46.5	48.0	-1.5	White
3	2.574M	44.7					+0.0	44.7	48.0	-3.3	White
QP											
^	2.576M	45.9					+0.0	45.9	48.0	-2.1	White
5	2.502M	44.5					+0.0	44.5	48.0	-3.5	White
QP											
^	2.504M	45.7					+0.0	45.7	48.0	-2.3	White
7	2.722M	44.0					+0.0	44.0	48.0	-4.0	White
QP											
^	2.728M	45.0					+0.0	45.0	48.0	-3.0	White
9	2.872M	44.0					+0.0	44.0	48.0	-4.0	White
10	2.647M	43.7					+0.0	43.7	48.0	-4.3	White

11	3.017M	43.5	+0.0	43.5	48.0	-4.5	White
QP							
^	3.020M	44.6	+0.0	44.6	48.0	-3.4	White
13	3.090M	43.4	+0.0	43.4	48.0	-4.6	White
QP							
^	3.096M	45.1	+0.0	45.1	48.0	-2.9	White
15	3.316M	42.9	+0.0	42.9	48.0	-5.1	White
16	3.607M	42.7	+0.0	42.7	48.0	-5.3	White
17	5.107M	42.3	+0.0	42.3	48.0	-5.7	White
18	3.392M	42.2	+0.0	42.2	48.0	-5.8	White
19	3.540M	42.1	+0.0	42.1	48.0	-5.9	White
20	2.432M	41.9	+0.0	41.9	48.0	-6.1	White
21	2.284M	41.8	+0.0	41.8	48.0	-6.2	White

CKC Laboratories, Inc.	Date: 02/25/2002	Time: 1:58:17 PM	VVO#: 78420
FCC 15.107 Class B	Test Lead: White	Sequence#: 19	



— Sweep Data — 1-FCC 15.107 Class B

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 2:10:34 PM

Equipment: **External CDMA Data Modem**

Sequence#: 21

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 849.97 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

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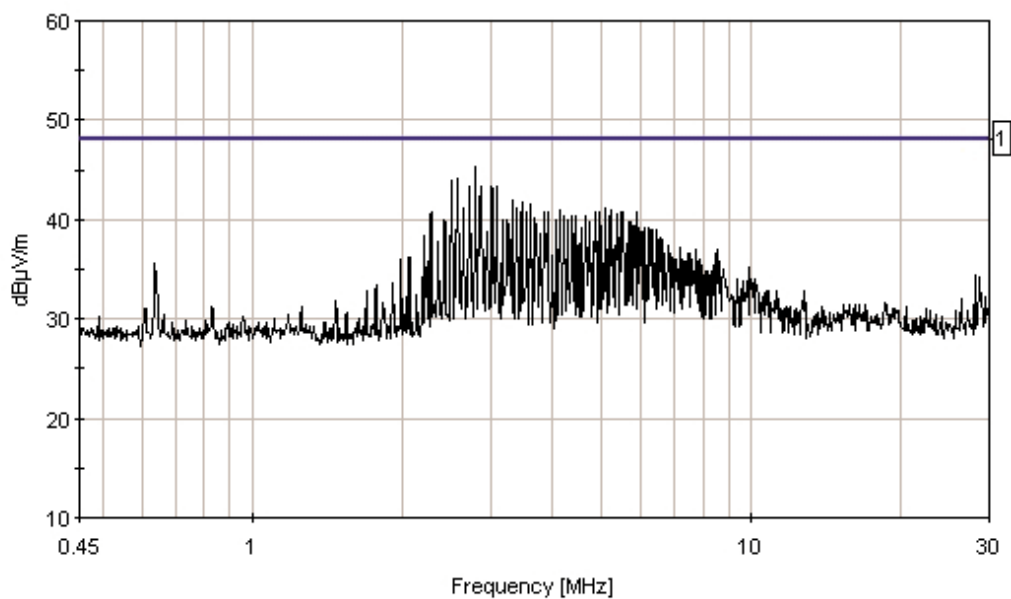
Measurement Data: Reading listed by margin.

Test Lead: Black

#	Freq MHz	Rdng dB μ V	dB	dB	dB	dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	2.795M	44.5					+0.0	44.5	48.0	-3.5	Black
QP											
^	2.800M	45.4					+0.0	45.4	48.0	-2.6	Black
3	2.501M	44.0					+0.0	44.0	48.0	-4.0	Black
4	3.091M	43.4					+0.0	43.4	48.0	-4.6	Black
5	2.872M	43.4					+0.0	43.4	48.0	-4.6	Black
6	2.728M	43.4					+0.0	43.4	48.0	-4.6	Black
7	3.020M	43.3					+0.0	43.3	48.0	-4.7	Black
8	2.575M	43.2					+0.0	43.2	48.0	-4.8	Black
QP											
^	2.576M	44.2					+0.0	44.2	48.0	-3.8	Black
10	3.313M	42.0					+0.0	42.0	48.0	-6.0	Black

11	3.464M	41.8	+0.0	41.8	48.0	-6.2	Black
12	3.612M	41.6	+0.0	41.6	48.0	-6.4	Black
13	3.387M	41.2	+0.0	41.2	48.0	-6.8	Black
14	2.652M	41.2	+0.0	41.2	48.0	-6.8	Black
15	5.107M	41.1	+0.0	41.1	48.0	-6.9	Black
16	5.244M	41.0	+0.0	41.0	48.0	-7.0	Black
17	4.152M	40.9	+0.0	40.9	48.0	-7.1	Black

CKC Laboratories, Inc. Date: 02/25/2002 Time: 2:10:34 PM VWO#: 78420
FCC 15.107 Class B Test Lead: Black Sequence#: 21



— Sweep Data — 1-FCC 15.107 Class B

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.107 Class B**

Work Order #: **78420**

Date: 2/25/02

Test Type: **Conducted Emissions**

Time: 2:19:32 PM

Equipment: **External CDMA Data Modem**

Sequence#: 22

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=9KHz. Receiver mode with Tx freq = 849.97 MHz. Range of measurement 450KHz-30MHz 12Vdc (DC power supply at 110 Vac, 60Hz), 17°C, 57% relative humidity.

Transducer Legend:

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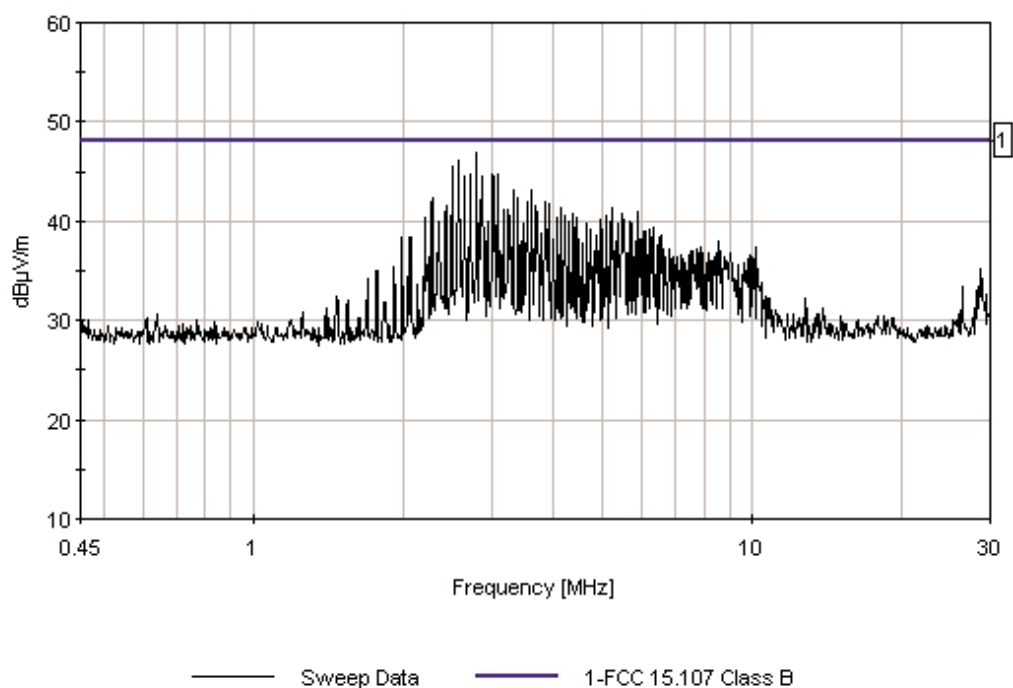
Measurement Data: Reading listed by margin.

Test Lead: White

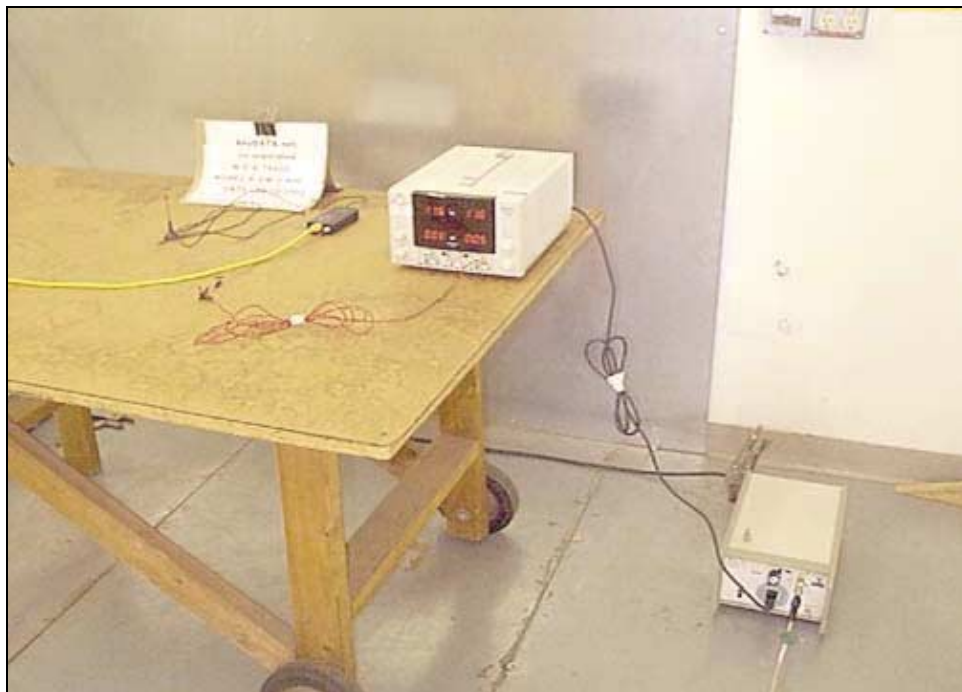
#	Freq MHz	Rdng dB μ V	dB	dB	dB	dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	2.797M	45.7					+0.0	45.7	48.0	-2.3	White
QP											
^	2.800M	46.9					+0.0	46.9	48.0	-1.1	White
3	2.576M	45.2					+0.0	45.2	48.0	-2.8	White
QP											
^	2.576M	46.1					+0.0	46.1	48.0	-1.9	White
5	2.503M	44.6					+0.0	44.6	48.0	-3.4	White
QP											
^	2.501M	45.6					+0.0	45.6	48.0	-2.4	White
7	2.872M	43.5					+0.0	43.5	48.0	-4.5	White
QP											
^	2.872M	44.6					+0.0	44.6	48.0	-3.4	White
9	3.092M	43.5					+0.0	43.5	48.0	-4.5	White
QP											
^	3.096M	44.7					+0.0	44.7	48.0	-3.3	White

11	2.725M	43.4	+0.0	43.4	48.0	-4.6	White
QP							
^	2.728M	44.7	+0.0	44.7	48.0	-3.3	White
13	3.018M	43.3	+0.0	43.3	48.0	-4.7	White
QP							
^	3.020M	44.7	+0.0	44.7	48.0	-3.3	White
15	3.612M	43.2	+0.0	43.2	48.0	-4.8	White
16	3.313M	43.2	+0.0	43.2	48.0	-4.8	White
17	3.387M	42.4	+0.0	42.4	48.0	-5.6	White
18	2.284M	42.4	+0.0	42.4	48.0	-5.6	White
19	3.838M	42.0	+0.0	42.0	48.0	-6.0	White
20	3.535M	41.9	+0.0	41.9	48.0	-6.1	White
21	3.920M	41.8	+0.0	41.8	48.0	-6.2	White
22	2.651M	38.9	+0.0	38.9	48.0	-9.1	White
QP							
^	2.647M	44.5	+0.0	44.5	48.0	-3.5	White

CKC Laboratories, Inc. Date: 02/25/2002 Time: 2:19:32 PM WO#: 78420
FCC 15.107 Class B Test Lead: White Sequence#: 22



Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
QP Adapter	01437	HP	85650A	3303A01884	092801	092802
LISN	02128	EMCO	3816/2NM	9809-1090	030701	030702
LISN	00847	EMCO	3816/2NM	1104	101501	101502



AC Conducted Emissions Test Setup - Front View



AC Conducted Emissions Test Setup - Back View

15.109 – RADIATED EMISSIONS – RECEIVER/DIGITAL

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Maximized Emissions** Time: 12:07:01
 Equipment: **External CDMA Data Modem** Sequence#: 14
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800
 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=120KHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 30-1000MHz. 12Vdc, 17°C, 57% relative humidity.

Transducer Legend:

T1=Log 331 092401	T2=Bicon 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	

Measurement Data:		Reading listed by margin.					Test Distance: 3 Meters				
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	954.411M	37.4	+23.7 -27.7	+0.0	+0.6	+6.3	+0.0 325	40.3	46.0	-5.7	Horiz 99
	QP								Receiver L.O. Freq		
2	954.408M	37.2	+23.7 -27.7	+0.0	+0.6	+6.3	+0.0 176	40.1	46.0	-5.9	Horiz 99
	QP								Receiver L.O. Freq, up right.		
^	954.442M	38.5	+23.7 -27.7	+0.0	+0.6	+6.3	+0.0 325	41.4	46.0	-4.6	Horiz 99
									Receiver L.O. Freq		
^	954.408M	38.3	+23.7 -27.7	+0.0	+0.6	+6.3	+0.0 176	41.2	46.0	-4.8	Horiz 99
									Receiver L.O. Freq, up right.		
^	954.408M	34.1	+23.7 -27.7	+0.0	+0.6	+6.3	+0.0 237	37.0	46.0	-9.0	Horiz 169
									Receiver L.O. Freq, up right.		

6	782.305M QP	39.6	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 212	39.8	46.0	-6.2	Vert 100
^	782.310M	42.3	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 212	42.5	46.0	-3.5	Vert 100
8	954.410M	35.8	+23.7 -27.7	+0.0	+0.6	+6.3	+0.0 151	38.7	46.0 Receiver L.O. Freq	-7.3	Vert 194
9	782.327M QP	37.6	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 1	37.8	46.0	-8.2	Horiz 99
^	782.309M	40.1	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 1	40.3	46.0	-5.7	Horiz 99
11	151.217M	38.3	+0.0 -28.4	+17.4	+0.2	+2.2	+0.0 283	29.7	43.5	-13.8	Horiz 156
12	521.499M	30.5	+17.4 -28.5	+0.0	+0.4	+4.5	+0.0 84	24.3	46.0	-21.7	Horiz 99
13	159.856M	28.4	+0.0 -28.3	+17.6	+0.2	+2.3	+0.0 349	20.2	43.5	-23.3	Vert 101
14	452.700M	23.0	+16.3 -28.7	+0.0	+0.4	+4.0	+0.0 311	15.0	46.0	-31.0	Horiz 99

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112
 Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420** Date: 2/25/02
 Test Type: **Maximized Emissions** Time: 11:19:05
 Equipment: **External CDMA Data Modem** Sequence#: 15
 Manufacturer: AnyDATA.net Incorporated Tested By: Eddie Wong
 Model: EMII-800 S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=120KHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 30-1000MHz. 12Vdc, 17°C, 57% relative humidity.

Transducer Legend:

T1=Log 331 092401	T2=Bicon 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	782.322M	39.0	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 95	39.2	46.0	-6.8	Vert 100
^	782.290M	40.1	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 95	40.3	46.0	-5.7	Vert 100
3	782.338M	38.3	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 360	38.5	46.0	-7.5	Horiz 106
^	782.306M	41.5	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 360	41.7	46.0	-4.3	Horiz 106
5	966.872M	38.5	+23.9 -27.8	+0.0	+0.6	+6.5	+0.0 68	41.7	54.0 Receiver L.O. Freq	-12.3	Horiz 99
6	966.881M	38.1	+23.9 -27.8	+0.0	+0.6	+6.5	+0.0 112	41.3	54.0 Receiver L.O. Freq	-12.7	Vert 111
7	569.240M	26.2	+18.3 -28.4	+0.0	+0.4	+4.7	+0.0 71	21.2	46.0	-24.8	Horiz 132
8	214.670M	26.9	+0.0 -28.3	+17.1	+0.3	+2.7	+0.0 155	18.7	43.5	-24.8	Vert 101
9	430.860M	28.3	+16.0 -28.6	+0.0	+0.4	+3.9	+0.0 71	20.0	46.0	-26.0	Horiz 132
10	68.717M	33.4	+0.0 -28.6	+7.0	+0.1	+1.5	+0.0 132	13.4	40.0	-26.6	Horiz 156

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112
 Customer: **AnyDATA.net Incorporated**
 Specification: **FCC 15.109 Class B**
 Work Order #: **78420**
 Test Type: **Maximized Emissions**
 Equipment: **External CDMA Data Modem**
 Manufacturer: AnyDATA.net Incorporated
 Model: EMII-800
 S/N: 0201K10210

Date: 2/25/02
 Time: 11:02:45
 Sequence#: 16
 Tested By: Eddie Wong

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=120KHz. Receiver mode with Tx freq = 848.97 MHz. Range of measurement 30-1000MHz. 12Vdc, 17°C, 57% relative humidity.

Transducer Legend:

T1=Log 331 092401	T2=Bicon 092401
T3=Cable #10 071601	T4=Cable #15 120602
T5=Preamp 8447D 090501	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	782.303M QP	39.8	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 253	40.0	46.0	-6.0	Vert 100
^	782.304M	40.9	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 253	41.1	46.0	-4.9	Vert 100
3	782.305M QP	38.7	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 360	38.9	46.0	-7.1	Horiz 100
^	782.309M	41.2	+21.7 -27.7	+0.0	+0.6	+5.6	+0.0 360	41.4	46.0	-4.6	Horiz 111
5	979.366M	40.3	+24.0 -27.8	+0.0	+0.6	+6.7	+0.0 67	43.8	54.0 Receiver L.O. Freq	-10.2	Horiz 100
6	979.366M	37.4	+24.0 -27.8	+0.0	+0.6	+6.7	+0.0 108	40.9	54.0 Receiver L.O. Freq	-13.1	Vert 110
7	844.780M	25.7	+22.2 -27.7	+0.0	+0.6	+5.8	+0.0 116	26.6	46.0	-19.4	Horiz 124
8	154.035M	29.7	+0.0 -28.4	+17.5	+0.2	+2.2	+0.0 53	21.2	43.5	-22.3	Vert 101
9	237.704M	27.2	+0.0 -28.2	+17.6	+0.3	+2.8	+0.0 330	19.7	46.0	-26.3	Horiz 156
10	365.100M	22.6	+17.7 -28.2	+0.0	+0.3	+3.6	+0.0 116	16.0	46.0	-30.0	Horiz 124

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.109 Class B**

Work Order #: **78420**

Date: 2/22/02

Test Type: **Maximized Emissions**

Time: 15:36:26

Equipment: **External CDMA Data Modem**

Sequence#: 11

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=1 MHz. Receiver mode with Tx freq = 824.04 MHz. Range of measurement 1-9 GHz. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Horn Antenna sn6246	T2=HP3017A sn3123A00281 11-Sept-01
T3=Helix #18 70' 11Sept2001	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	1908.820M	40.2	+26.1	-38.3	+3.6	+0.0 358	31.6	54.0	-22.4	Horiz 100
2	2589.700M	30.1	+28.2	-38.6	+4.2	+0.0 141	23.9	54.0	-30.1	Vert 100
3	1048.800M	29.6	+24.0	-40.4	+2.7	+0.0 50	15.9	54.0	-38.1	Vert 100

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.109 Class B**

Work Order #: **78420**

Date: 2/22/02

Test Type: **Maximized Emissions**

Time: 15:17:53

Equipment: **External CDMA Data Modem**

Sequence#: 12

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. Tx/RX antenna is connected to the antenna port. RBW=VBW=1 MHz. Receiver mode with Tx freq = 836.52 MHz. Range of measurement 1-9 GHz. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Horn Antenna sn6246	T2=HP3017A sn3123A00281 11-Sept-01
T3=Helix #18 70' 11Sept2001	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	1933.780M	43.5	+26.2	-38.3	+3.7	+0.0	248	35.1	54.0	-18.9	Horiz 100
2	3292.000M	28.8	+30.6	-37.5	+5.6	+0.0	330	27.5	54.0	-26.5	Vert 100
3	1327.000M	33.2	+24.3	-39.1	+3.1	+0.0	320	21.5	54.0	-32.5	Vert 100

Test Location: CKC Laboratories, Inc. • 110 N. Olinda Place • Brea, CA 92823 • (714) 993-6112

Customer: **AnyDATA.net Incorporated**

Specification: **FCC 15.109 Class B**

Work Order #: **78420**

Date: 2/22/02

Test Type: **Maximized Emissions**

Time: 15:15:16

Equipment: **External CDMA Data Modem**

Sequence#: 13

Manufacturer: AnyDATA.net Incorporated

Tested By: Eddie Wong

Model: EMII-800

S/N: 0201K10210

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
External CDMA Data Modem*	AnyDATA.net Incorporated	EMII-800	0201K10210

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Samsung	Academy 680	558791ANB00124

Test Conditions / Notes:

EUT placed on the bench. RS232 port connected to remote laptop. 12Vdc is obtained from a support power supply. Laptop running test software to exercise the EUT. TX/RX antenna is connected to the antenna port. RBW=VBW=1 MHz. Receiver mode with Tx freq = 848.97 MHz. Range of measurement 1-9 GHz. 12Vdc, 23°C, 45% relative humidity.

Transducer Legend:

T1=Horn Antenna sn6246	T2=HP3017A sn3123A00281 11-Sept-01
T3=Helix #18 70' 11Sept2001	

Measurement Data:

Reading listed by margin.

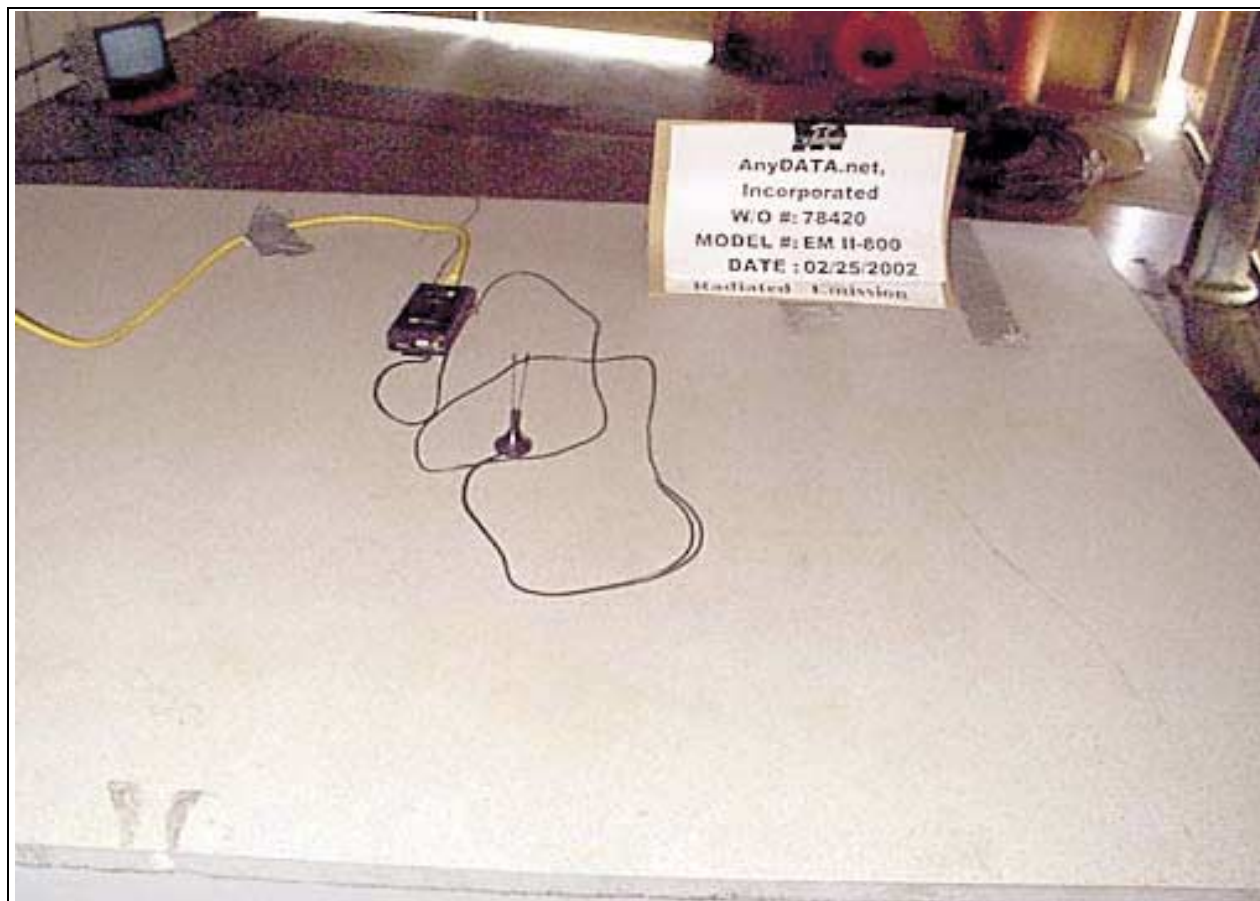
Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	3917.300M	37.1	+31.8	-37.6	+6.1	+0.0	179	37.4	54.0	-16.6	Horiz 100
2	1958.600M	42.5	+26.3	-38.4	+3.8	+0.0		34.2	54.0	-19.8	Horiz 100
3	6983.800M	23.4	+35.5	-37.4	+8.0	+0.0	71	29.5	54.0	-24.5	Vert 100

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
QP Adapter	01437	HP	85650A	3303A01884	092801	092802
Bicon Antenna	306	AH	SAS200/540	220	092401	092402
Log Periodic Antenna	331	AH	SAS 00/516	330	092401	092402
Pre-amp	00309	HP	8447D	1937A02548	090501	090502
Antenna cable	NA	NA	RG214	Cable#15	122001	122002
Pre-amp to SA cable	NA	Harbour	RG223/U	Cable#10	071601	071602
1000-90,000 MHz						
Spectrum Analyzer	01865	HP	8566B	2532A02509	092801	092802
QP Adapter	01437	HP	85650A	3303A01884	092801	092802
Horn Antenna	0646	EMCO	3115	4683	022801	022802
Microwave Pre-amp	00786	HP	83017A	3123A00281	091201	091202
¼" Heliax Coaxial Cable	NA	Andrew	LDF1-50	Cable#18 (70 ft)	091101	091102



OATS Test Setup - Front View



OATS Test Setup - Back View